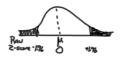
## Hypothesis Testing





#### Previous Hypothesis Testing Examples

- From linear regression:

L-value
"Sig." (p-value)

- Probability that the coefficial is zero

### Hypothesis testing

- Null hypothesis Leg what you're testing

- Alternative hypothesis Le.g. what else could happen.

Null hypothesis
- What you are testing
e.g.

\_There is no relationship between advocation and wages

(aka, no Errelation)

Ho: R=0

-There is a positive relationship between reading to kids and literacy.

Ho: R>0

- The slope between economic growth and Unemployment is-2%.

# Ho: B=22 Alternative Hypothesis

L'Everything else

When Ho: R=0

Ha. R≠0 Ha. R≠0 Ha. R ≤ 0 When Ho: β=22 Ha: β≠22

Steps for hypothesis testing. (aka scientific method)

- D State your null and alternative hypothesis.
- Determine your level
  of confidence
  (Hyphally it's 58)
- 3 Determine your oritical valve. (typically 1.96 when confidence is 52)
- (4) Conduct statistical test
- © Draw conclusion

(eg regression)

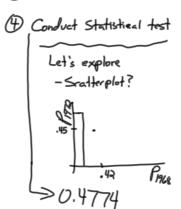
Exi. Labor Force Participation of Females.

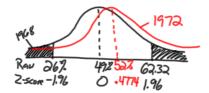
- O Greater liberation of Women's rights.
- (2) Higher inflation erroding family incomes.
- Dhareasing Liberal views of divorce

-> Hypothesis: the participation of women in the labor force has increased between 1968 and 1972

P1968 = proportion of women 1968.
P1972 = " " " 1972

- D Ho: P1972 > P1968 Ha: P1972 ≤ P1968
- @ Confidence Level: 5%
- 3 Critical Value: 1.96





-1.962.477421.96 Reject null hypothesis

Oconclusion: Women did not participate at higher rates in the labor force in 1972 compared to 1968.

