## **Significant Linear Correlation**

(There is not)*vs*(There is)

Claim:

There is no linear correlation between two variables, this implies that r = 0

1) Set up  $H_0$  and  $H_1$ :  $H_0: \rho = 0$  (There is no linear correlation); Claim  $H_1: \rho \neq 0$  (There is a linear correlation); This a two-tail test

2) Find critical values of *t* with n - 2 degrees of freedom.

3) Draw your bell-curve and identify the reject and fail to reject region for  $H_0$  only.

