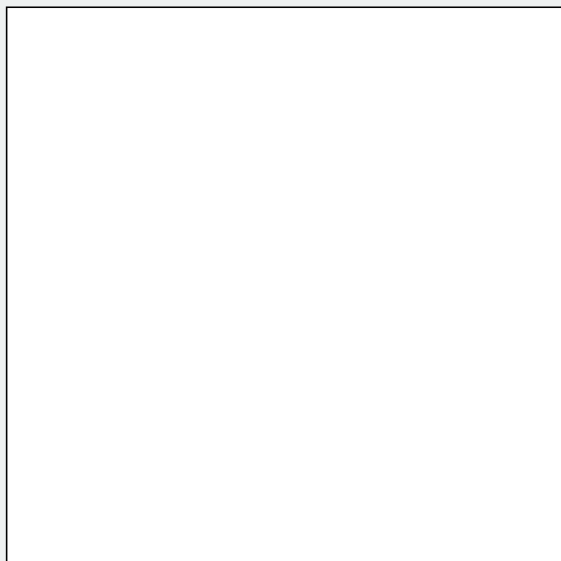


## 6: Linear Correlation and Regression

### Linear Correlation and Regression

This calculator creates a scatter plot, the regression equation,  $r$  and  $r^2$ , and performs the hypothesis test for a nonzero correlation. Please report the error to Dr. Jessica Kuang at [jkuangATvcccd.edu](mailto:jkuangATvcccd.edu).

To learn how to use this calculator, please watch a [short video](#) here.



#### Input

Put the independent variable's data separated by commas in the first row and the dependent variable's data separated by commas in the second row, then click Plot Points and Calculate.

Explanatory/Independent

Variable

(x):

Response/Dependent

Variable

(y):

Plot Points and Calculate

Reset

#### Output

Regression Equation:

$r$ :

$r^2$

:

:

$p$

-

v

a

l

u

e

:

:

:

:

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☒ Hypothesis:  $H_0 : \rho = 0, H_1 : \rho \neq 0$

☐ Hypothesis:  $H_0 : \rho = 0, H_1 : \rho < 0$

☐ Hypothesis:  $H_0 : \rho = 0, H_1 : \rho > 0$

Test Statistic ( $t$ ):

Scientific Calculator

