**UTAustinX:** UT.7.20x Foundations of Data Analysis - Part 2

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**Bookmarks**

Week 6: Correlation and Regression > Lecture Videos > Regression Inference

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# Regression Inference

▸ Important Pre-Course Survey

▸ Contact Us

▸ How To Navigate the Course

▸ Discussion Board

▸ Office Hours

▸ Week 0: Introduction to Data (Optional Review)

▸ Week 1: Sampling

▸ Week 2: Hypothesis

Testing (One Group
Means)

▸ Week 3: Hypothesis
Testing (Two Group
Means)

▸ Week 4: Hypothesis
Testing (Categorical
Data)

▸ Week 5: Hypothesis
Testing (More Than
Two Group Means)

▾ **Week 6: Correlation
and Regression**

(Caption will be displayed when you start playing the video.)

**Readings**
Reading Check due May 03,
2016 at 17:00 UTC

▶        0:00 / 10:48

▸   **1.0x**

**Lecture Videos**
Comprehension Check due
May 03, 2016 at 17:00 UTC

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**Pre-Lab**

(1/1 point)

1a. Why do we typically square the value of the Pearson correlation coefficient?

○ Because it's just standard practice.

○ Squaring places the number on the scale of the outcome variable.

◉ Because without squaring, the Pearson Correlation is free of scale.　✔

○ None of the above.

(1/1 point)

What is the statistical test that is used to test significance for the Pearson Correlation?

◉ The t-distribution　✔

○ The F-distribution

○ The chi-square distribution

○    None of the above.

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(1/1 point)

1c. The Standardized Beta coefficients for a model are _____.

○    The standardized scores for all coefficients in the model

○    The value that the outcome moves by in Standard Deviation Units as the predictor changes by one whole Standard Deviation

○    The values if we had created a z-score for all the coefficients in the model, including the outcome.

◉    All of the above    ✔

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(1/1 point)

**1d. What is the statistical test that is used to test significance for the overall model fit in a Linear Regression model?**

- ○ The t-distribution

- ● The F-distribution ✔

- ○ The chi-square distribution

- ○ None of the above.

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