

# UT-Austin Professors' Salaries and Student Evaluations

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# Purpose

## Should student evaluations of professors be considered when determining faculty compensation and promotion?

- We collected the following data on 94 UT-Austin professors in order to analyze and draw conclusions on key relationships:
  - Teaching Evaluation Score
    - 1 = very unsatisfactory, 5 = excellent
  - Beauty Score
    - Average = 0, range from -2 (ugly) to +2 (beautiful)
  - Gender
    - Male or female
  - Age
  - Minority
  - Tenure
  - Native English Speaker
  - Division
  - Credits
  - Number of Students
  - Number of Student Responses

# Action

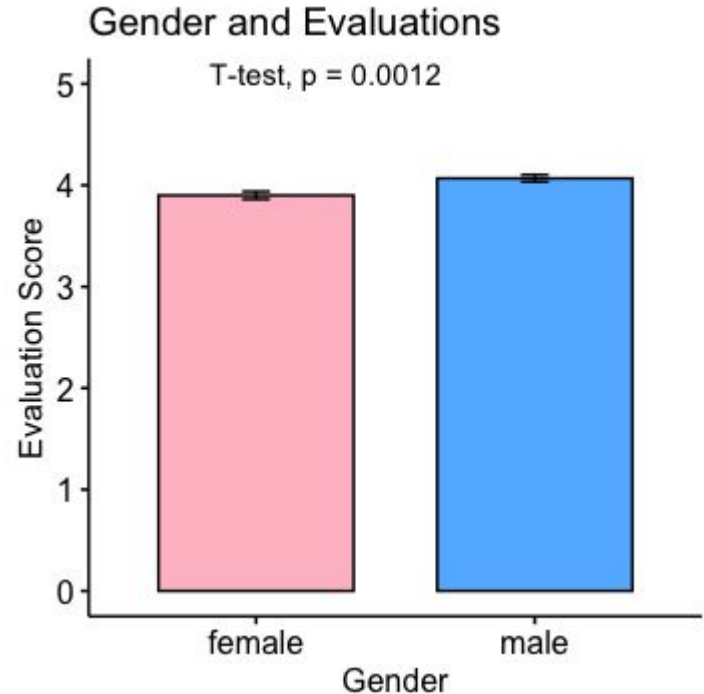
- Analyzed data collected by University of Texas at Austin (2000-2002)
- Questions Investigated:
  - Is there a significant difference in student evaluation scores between genders?
  - Are there correlations between physical appearance of professors (beauty scores), age of professors, and student evaluation scores of professors?
  - Does physical appearance of professors (beauty scores) predict student evaluation scores of professors?

## Analysis 1:

Is there a significant difference in student evaluation scores between genders?

### Independent T Test

- Mean Evaluation Scores
  - Females: 3.90
  - Males: 4.07
- The mean student evaluation scores are significantly different between female and male professors



$$t(425) = -3.2667, p < 0.01, df = 425.76$$

## Analysis 2: Correlation between Professors' age, beauty scores and evaluation scores

### Correlation Tests

Correlations		
Variable	Age	Beauty
Beauty	<b>-0.30*</b>	
Evaluation Score	-0.05	<b>0.19*</b>

*p*-values indicated on chart (\**p* < 0.01)

### Findings

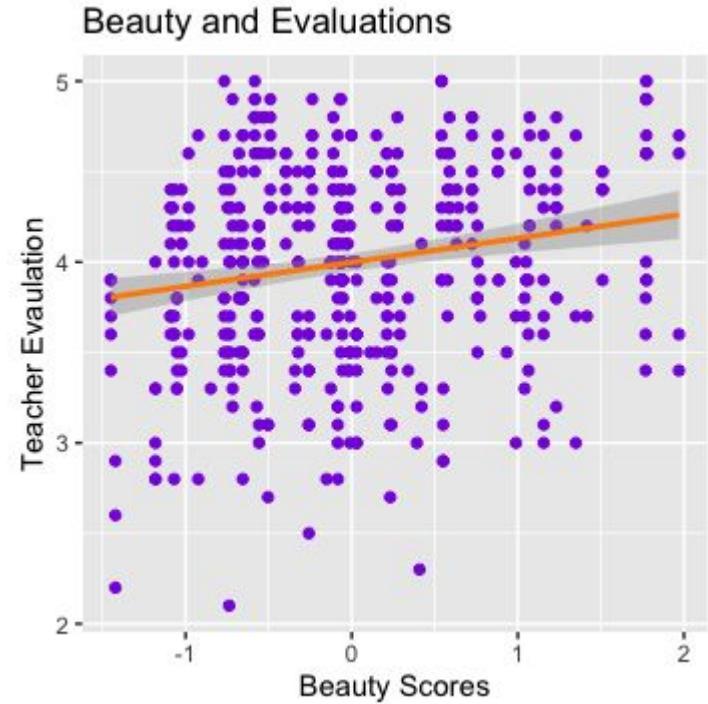
- There exists a significant negative correlation between professors' age and student-rated beauty scores for professors
- There exist a significant positive correlation between student rated beauty scores and student rated evaluation scores for professors

## Analysis 3:

Do beauty scores predict evaluation scores?

### Regression Analysis

- Student rated beauty scores for Professors significantly predicted student evaluation scores for Professors



$$F(1, 461) = 17.08, p < 0.01 \quad y = 0.13x$$

# Impacts

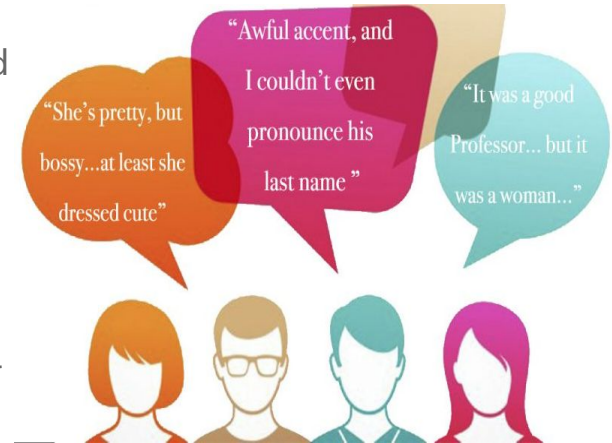
**Conclusion:** Student evaluations of professors are not accurate predictors of Professor performance

## Take Away:

Evaluation scores should be adjusted for biases when determining Professor salaries and promotions

## Limitations & Future Directions

- Limited variables were explored
- Intervention Programs
  - Educate students and professors
  - Open communication
- Non-biased assessment tools
- Holistic evaluation of professor performance



# Thank You

Link to dataset:

- [R: Impact of Beauty on Instructor's Teaching Ratings \(vincentarelbundock.github.io\)](https://vincentarelbundock.github.io)

References for Images Used:

- <https://www.thechannels.org/news/2018/05/07/studies-find-racial-gender-bias-in-student-evaluations-of-faculty/>
- <https://www.everydayhealth.com/adhd/adhd-research.aspx>