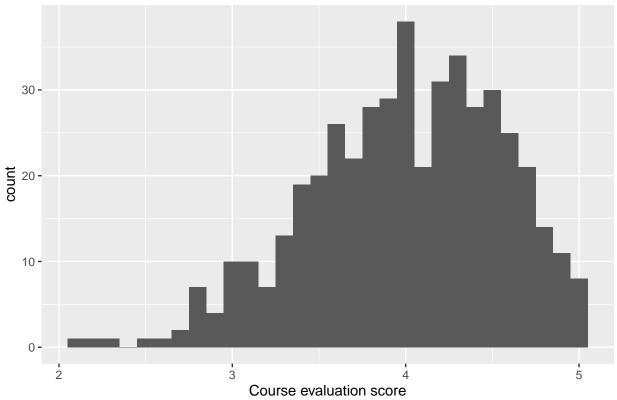
## SDS 315 Homework 2

Elizabeth 'Betsy' Sherhart UT EID: eas5778 Click here for link to GitHub repository

January 28, 2025

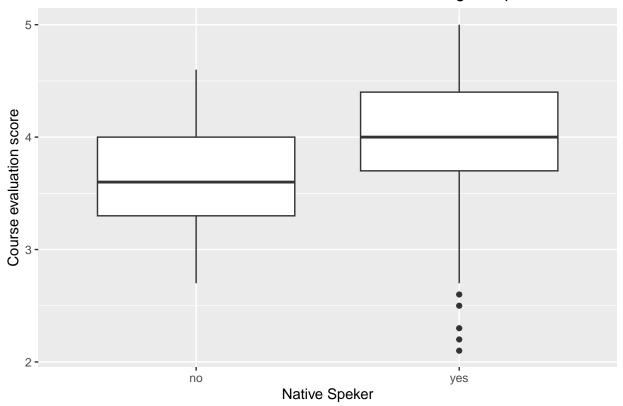
#### Problem 1: Beauty, or not, in the classroom

Part A
Distribution of course evaluation scores

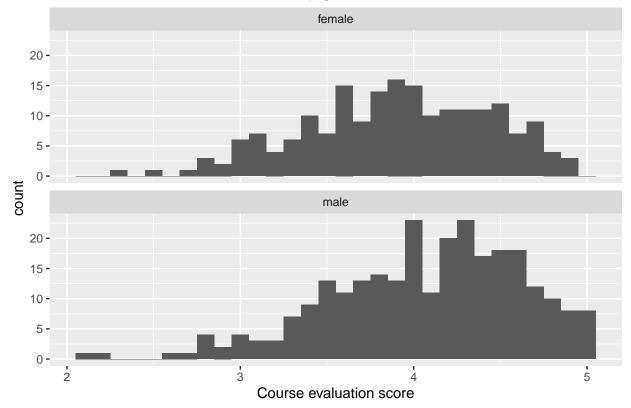


The above histogram shows the distribution of course evaluation scores for a sample of 463 UT Austin courses. The distribution reveals that even though students had an option to rank courses on a scale from 1 to 5, the lowest evaluation score given was 2.1 and the highest was 5. The histogram is skewed towards the left slightly meaning the median, 4 and IQR, 0.8 are used to summarize the data.

Part B
Course evaluation scores for native and non-native english speakers

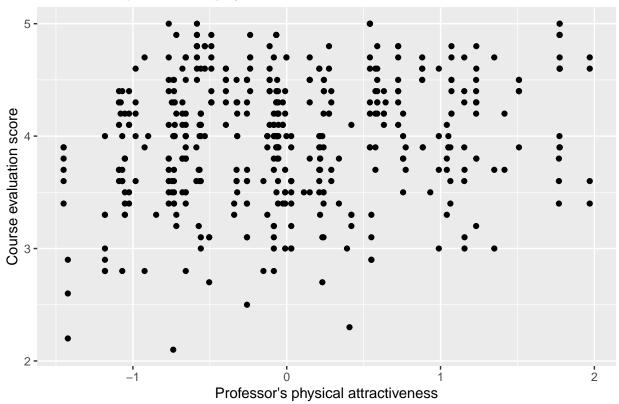


 $\begin{array}{c} \mathbf{Part} \ \mathbf{C} \\ \mathbf{Distribution} \ \mathbf{of} \ \mathbf{evaluation} \ \mathbf{scores} \ \mathbf{by} \ \mathbf{gender} \end{array}$ 



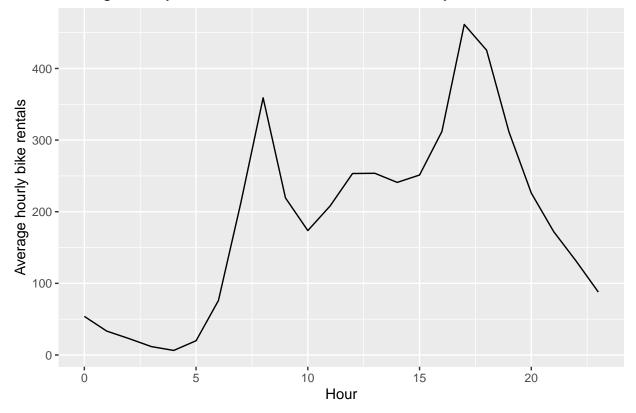
Part D

Correlation professor's physical attractiveness and course evaluation score

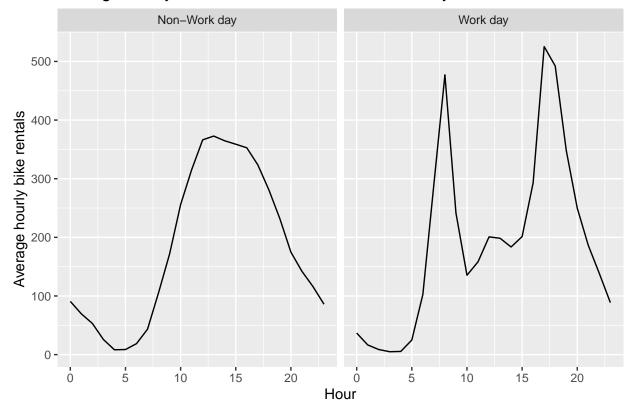


# Problem 2: bike sharing

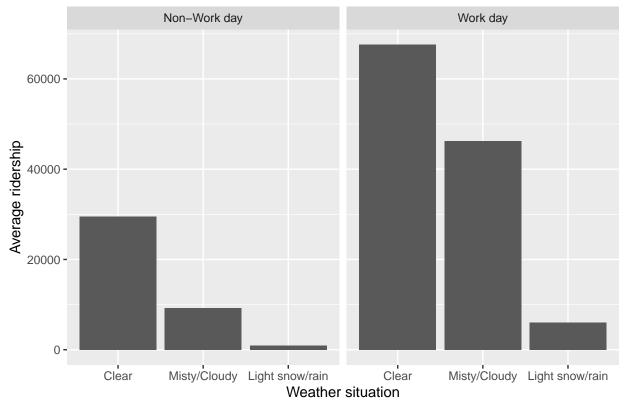
Part A
Average hourly bike rentals across hours of the day



Part B
Average hourly bike rentals across hours of the day

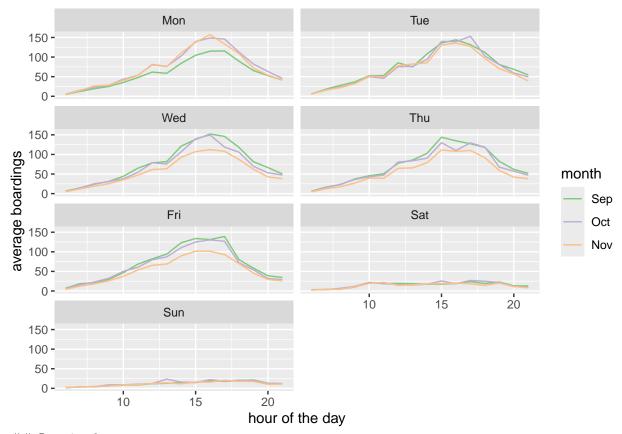


 ${\bf Part}\ {\bf C}$  Average ridership during the 9 AM hour based on weather situation



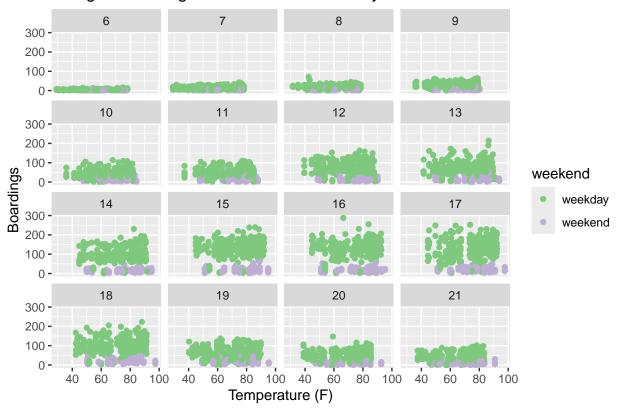
## Problem 3: Capital Metro UT Ridership

## Question 1



## Question 2

### Avergae boardings across hours of the day



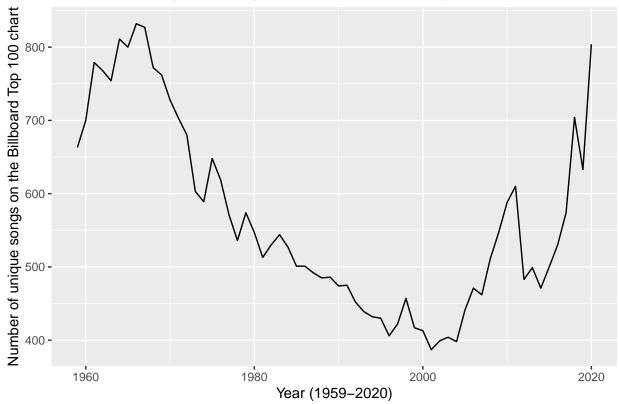
## Problem 4: Wrangling the Billboard Top 100

### Part A

##	# .	A tibble: 10 x 3		
##	# (	Groups: performer [10]		
##		performer	song	count
##		<chr></chr>	<chr></chr>	<int></int>
##	1	Imagine Dragons	Radioactive	87
##	2	AWOLNATION	Sail	79
##	3	Jason Mraz	I'm Yours	76
##	4	The Weeknd	Blinding Lights	76
##	5	LeAnn Rimes	How Do I Live	69
##	6	LMFAO Featuring Lauren Bennett & GoonRock	Party Rock Anthem	68
##	7	OneRepublic	Counting Stars	68
##	8	Adele	Rolling In The Deep	65
##	9	Jewel	Foolish Games/You Were Meant~	65
##	10	Carrie Underwood	Before He Cheats	64

Part B

Musical Diversity over the years on the Billboard Top 100 chart



Part C



