Carlos Bermeo Statistical Inference

**Project Description**

For my project I decided to investigate US Airlines, fares, and flight routes. I’ve always been interested in travelling the world as well as exploring different cultures and a big part of my interest in this matter is flight, because without it there would be no aerial travel! I found this data set on Kaggle with the link [US Airline Flight Routes and Fares](https://www.kaggle.com/datasets/amitzala/us-airline-flight-routes-and-fares). This data set was created by Amit Zala and it focuses on flight routes, fares, and passenger volumes from different domestic airlines within the USA from 1993 to 2024. Some questions I aim to answer in this project are the difference in pricing between airlines for the same destination and whether competition from bigger airlines would affect prices for low-cost airlines.

**Names of columns in data set**

Fare = Average fare per passenger

Carrier\_lg = Shows the airline denoted by the acronym (ex. American Airlines = AA)

Passengers = Shows the number of passengers per airline

Airport\_1 = Airport where the airline is departing from (ex. Dallas Love Field = DAL)

Airport\_2 = Airport where the airline arrives too