US Education vs Salary over time

Hypothesis – There is a difference in wages over time based on education level, gender and race.

Project Description - Using the Wages by Education in the USA (1973-2022) data set found on Kaggle, we would like to determine if there are wage differences over time based on the criteria of education level, gender and race.

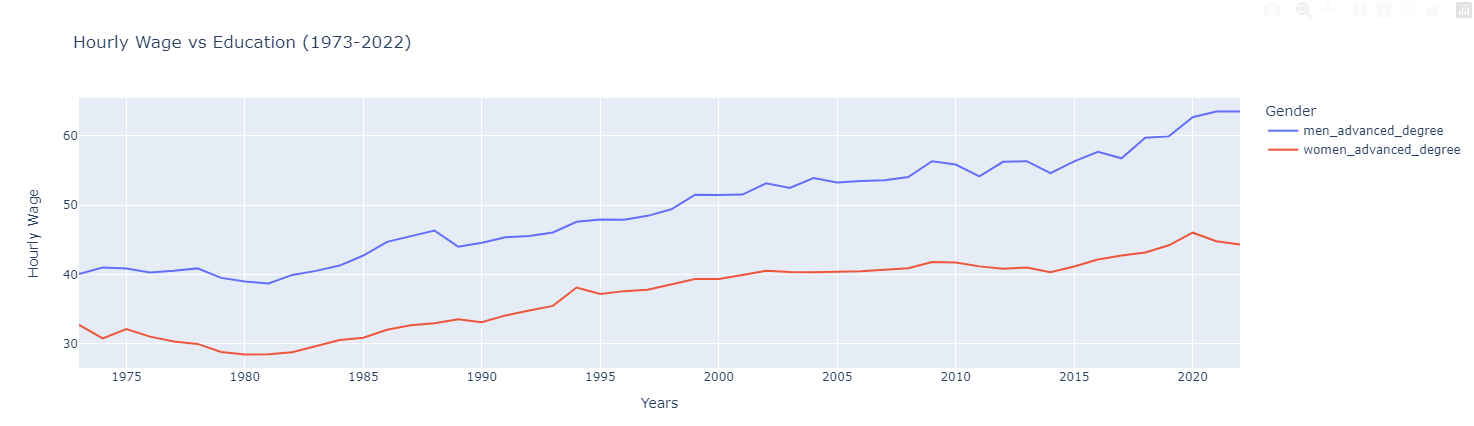
Research Questions to Answer:

* Are salaries trending towards females earning as much as males for those with an advanced degree?
* Does the increase in education affect the increase in salary for both men and women equally?
* For those with an advanced degree, is there a difference between one of the groups based on race for the last 5 years?

Question 1 - Are salaries trending towards females earning as much as males for those with an advanced degree?

For this question, data was obtained from the data set for total women and total men with advanced degrees.

We first looked at a line chart of salary over the years for men and women individually. As noted below, there is a consistent gap over the years in salary between the genders, though in general it moves in the same directions.



Next we looked at

Question 2 - Does the increase in education affect the increase in salary for both men and women equally?

Question 3 - For those with an advanced degree, is there a difference between one of the groups based on race for the last 5 years?

Limitations:

Conclusion: