



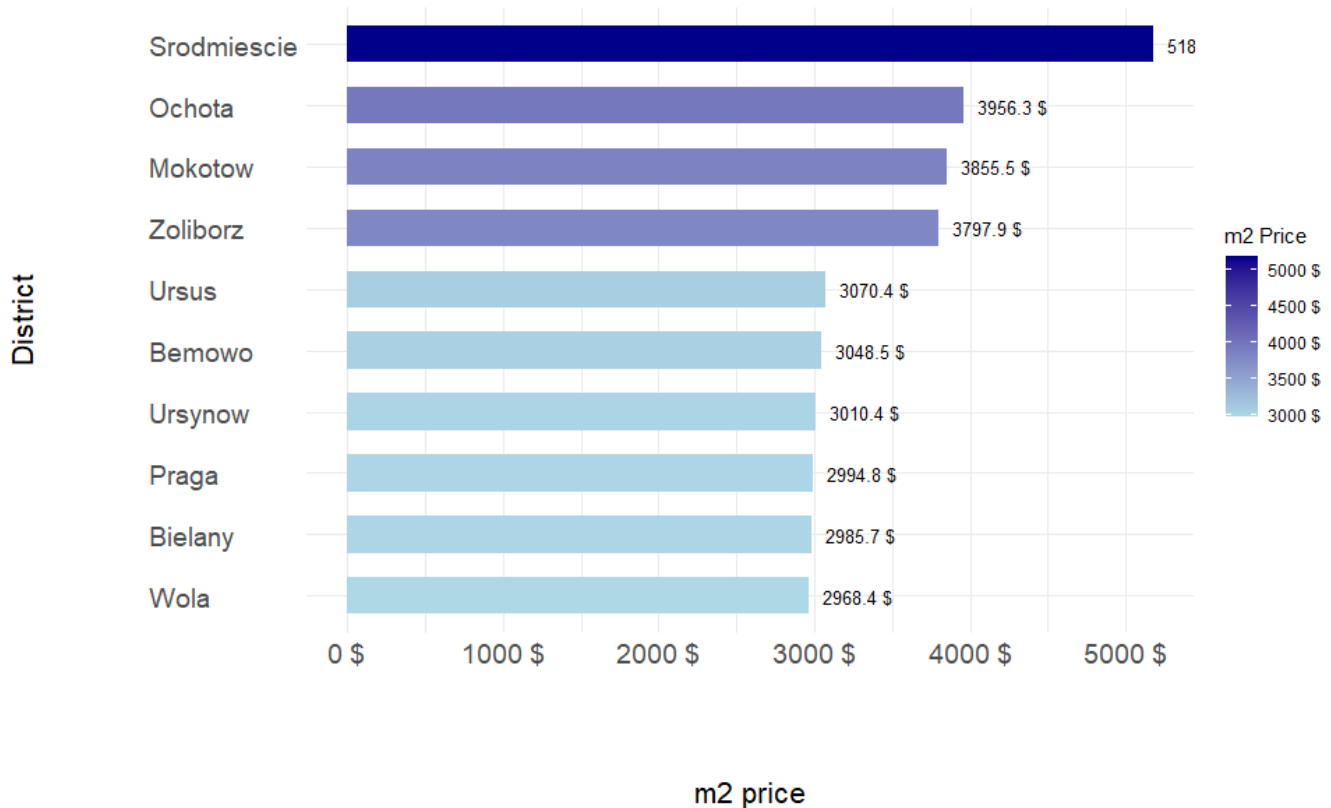
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YIST 303 Data Visualization  
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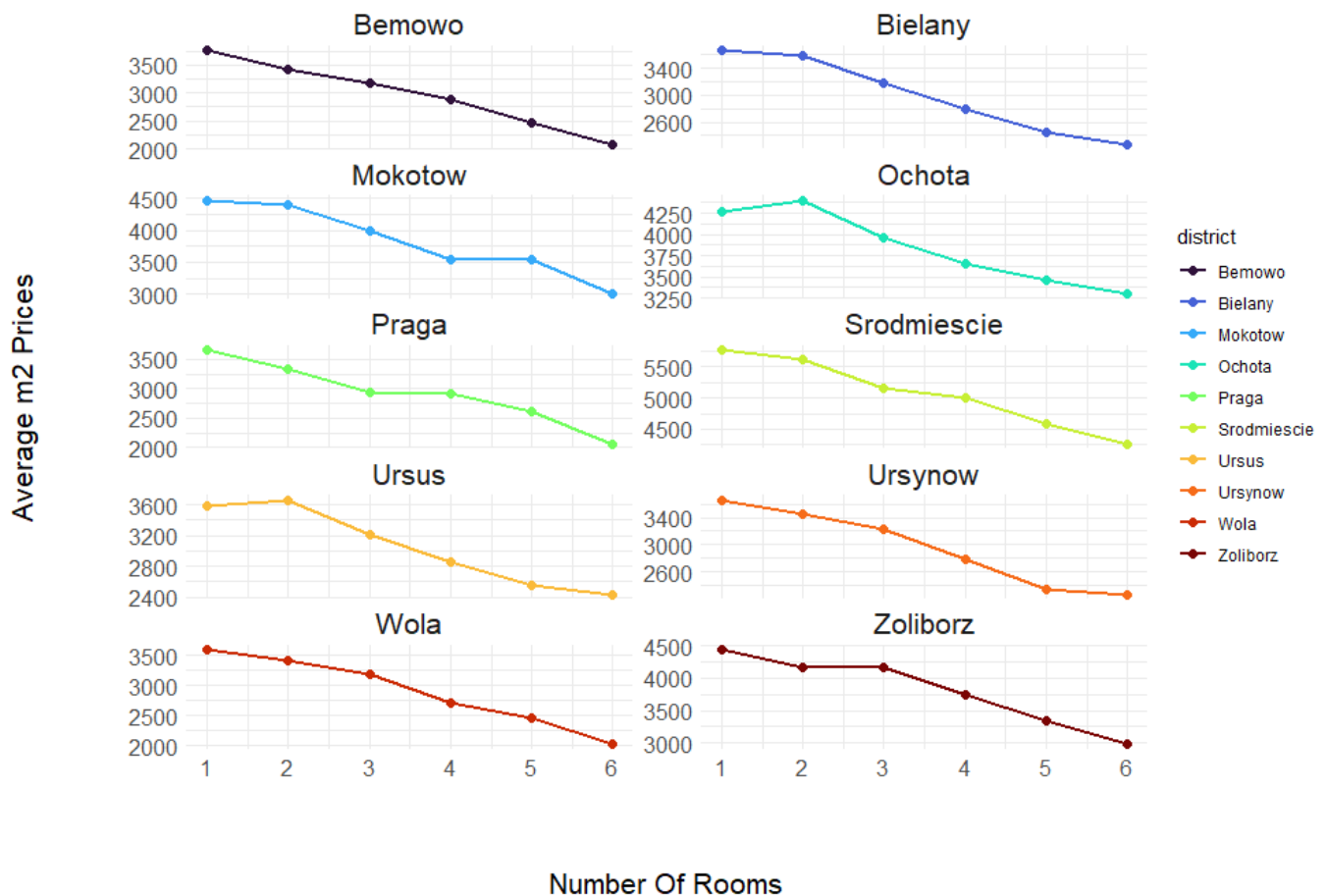
## CASE 1:

### The Average Square Meter Prices Of Houses By Districts



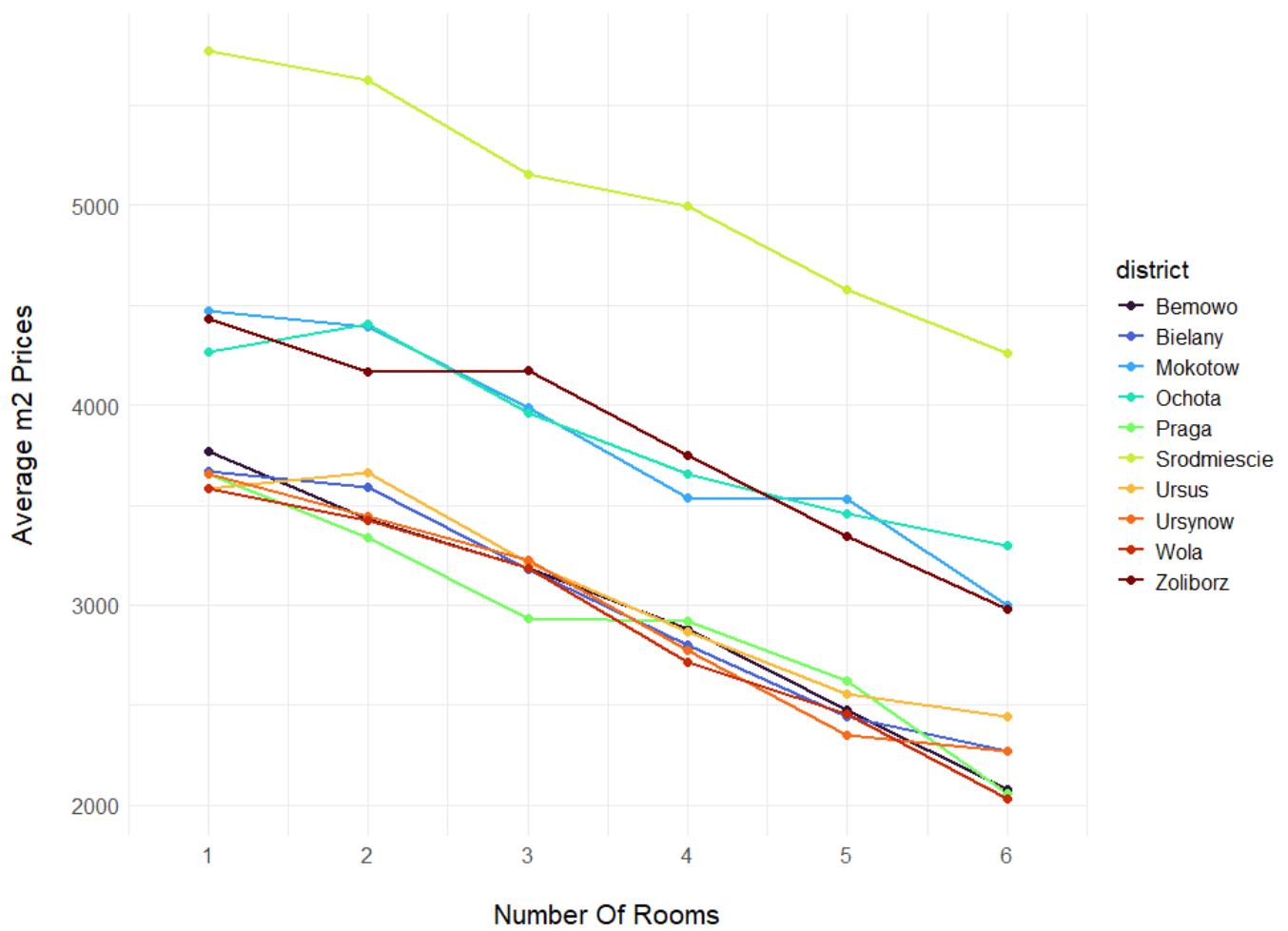
- This chart shows the average square meter prices for each district. The districts are arranged in order of lowest to highest prices.
- There are significant price differences between districts. The graph shows that average square meter prices are much higher in some districts.
- A few districts at the top of the chart have very high square meter prices compared to others. These districts are likely to be closer to the city center, popular, and have well-developed infrastructure. The high prices may be due to the high demand for living there.
- The districts at the bottom of the graph have lower square meter prices. These districts may be located in the outskirts of the city or in less demanding areas. Such areas are generally developing, far from the city center, but may be attractive to those looking for more affordable housing alternatives.
- The color scale visually emphasizes the differences in square meter prices between districts by shifting from light blue tones to dark blue tones as prices increase. This more clearly reveals which districts have higher prices.

## The Average Square Meter Prices Of Houses Vary According To The Number Of Rooms In The House By Districts



- The graph shows the average square meter prices of residences with different numbers of rooms for each region.
- In general, in many regions, there is a significant change in average square meter prices as the number of rooms increases. Although this change is not at the same rate in every region, it is seen that in some regions the price increases or decreases more rapidly depending on the number of rooms.
- When the slopes of the lines are examined, while there are smoother transitions in price changes in some regions, sudden jumps or drops can be seen in some regions as the number of rooms increases. These deviations may depend on the housing structure of the region, demand status or other socioeconomic factors.

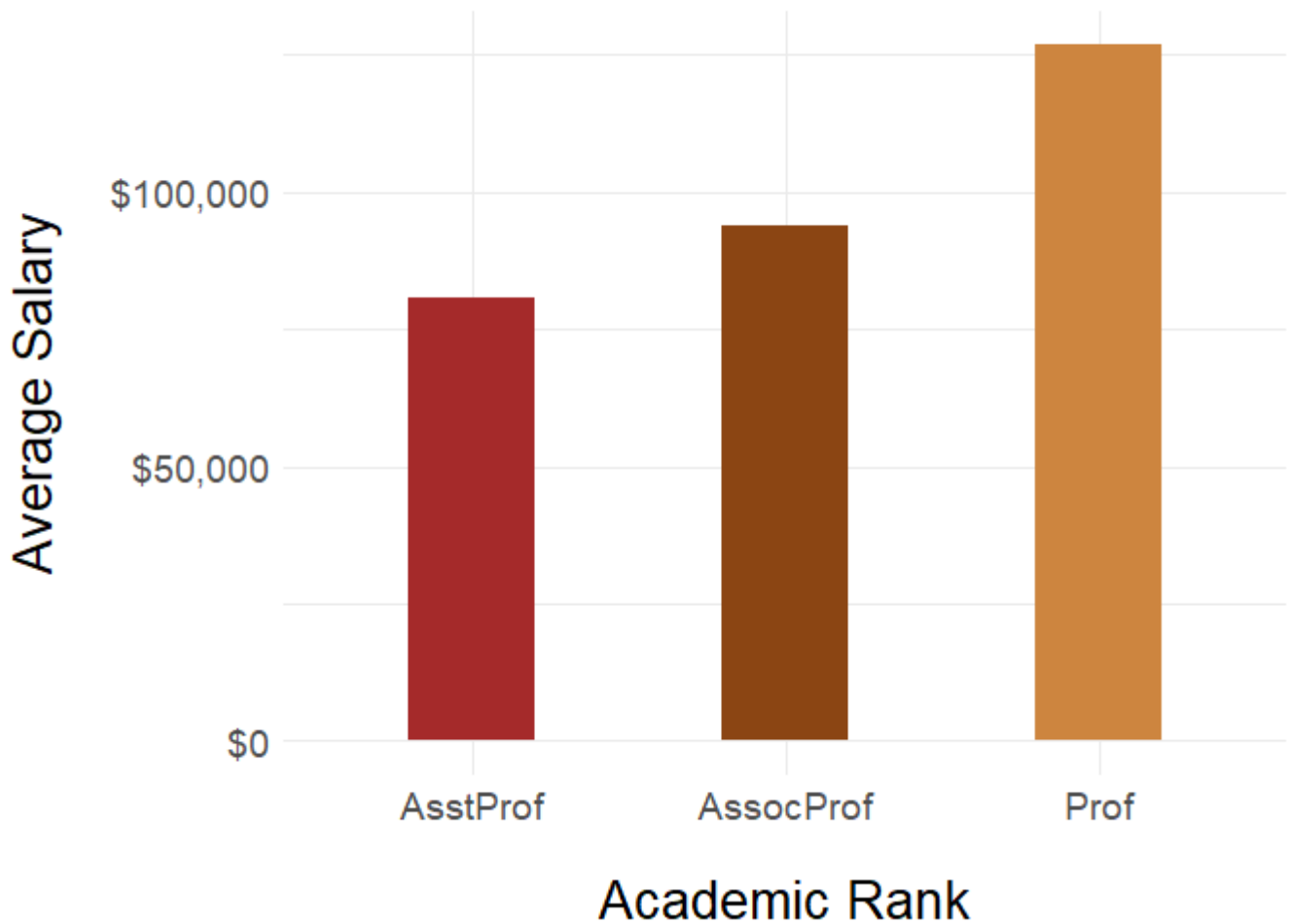
## The Average Square Meter Prices Of Houses Vary According To The Number Of Rooms In The House By Districts



➤ In this graph we can see all the data in a single graph.

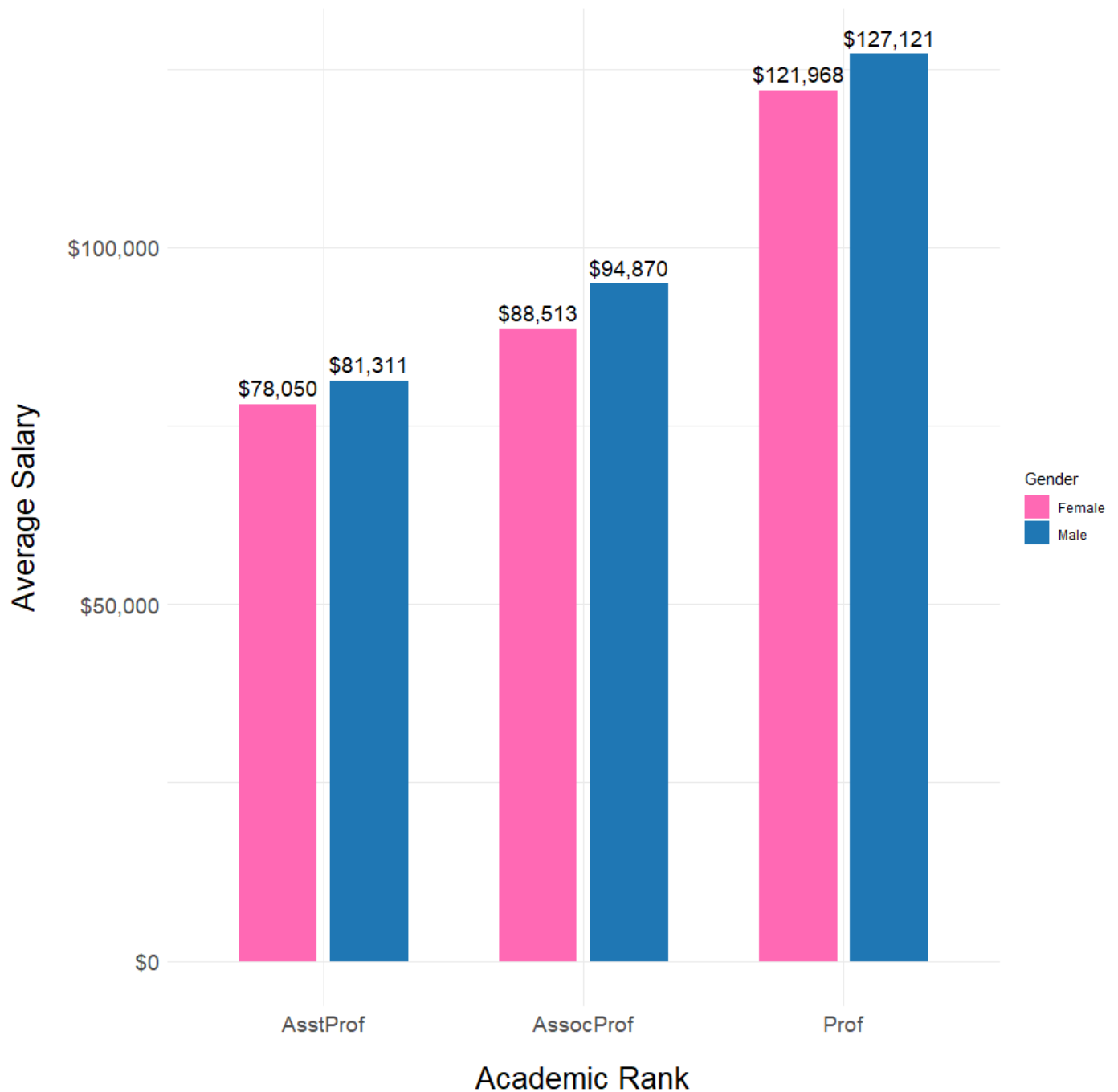
## CASE 2:

### Average Salary by Academic Rank



- The graph shows that there is a significant salary difference between academic titles. For example, the average salary of the highest academic titles (such as professor) is considerably higher than that of the lower titles (such as assistant professor, lecturer, etc.). This shows that advancement in academic career is directly proportional to salary increase.
- On the Y-axis, salaries are formatted as currency, making the values easy to understand. Thus, the user can observe the salaries in dollars.

## Average Salary by Academic Rank and Gender



- The graph shows the average salaries of men and women for each academic title, with two separate bars. In general, men with the title of professor have higher average salaries than men and women with other titles. This suggests that salaries increase as an academic career progresses.
- For each title, significant differences can be observed between the average salaries of men and women. For example, for most titles, men's salaries appear to be higher than women's salaries. This may indicate gender inequality in academia