

Women's footprint in Argentine Olympic Games

Data Analysis with Python: Final Project

Abstract

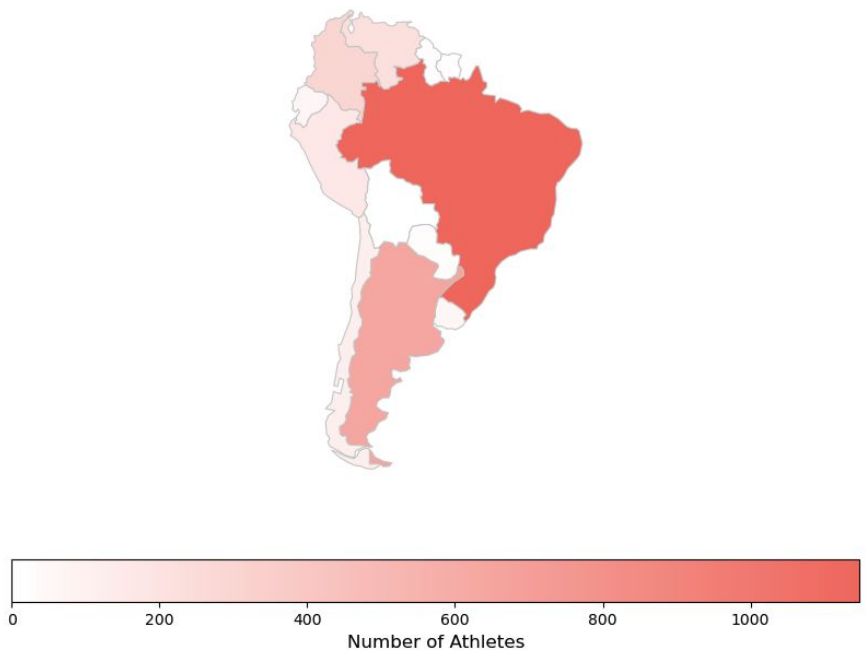
This study analyzes the evolution of **female participation in the Olympic Games in Argentina** through the analysis of a dataset spanning from 1896 to 2016.

By examining trends in participation in different sport disciplines and editions of the Games, the research seeks to highlight the trajectory of Argentine female athletes and provide valuable information on their performance over time.

The results of the analysis allow us to identify patterns and trends that contribute to a better understanding of the presence of Argentine women on the Olympic stage. The main conclusions of the analysis are presented further below.

How does Argentina stand in South America?

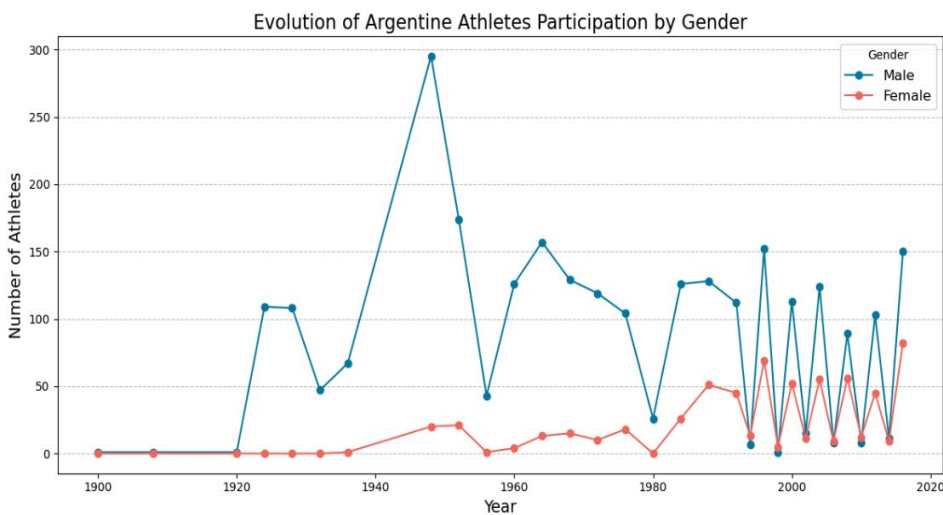
Geographic Distribution of Female Athletes in South America



Argentina stands out as one of the South American countries with the highest female participation in the Olympic Games after Brazil with 27.29%.

The total number of Argentine athletes who participated throughout history is 643 female athletes.

Situation in the country

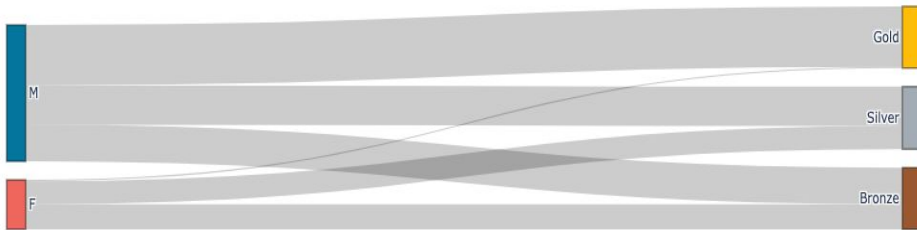


A deeper analysis reveals that, despite being the leader in the region, there is still a significant gender gap compared to male participation.

Women's participation has experienced growth over the years, and it can be noted that there is a higher participation in the summer season rather than winter due not only to climatic and geographical conditions, but also to the sports culture: summer sports, especially soccer, field hockey and athletics, are more popular in Argentina and have a long tradition in the country.

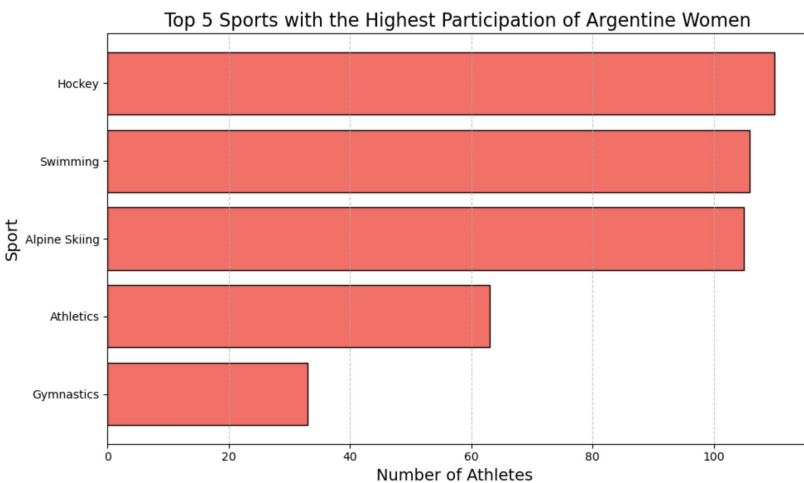
Female vs. Male success

Medal Distribution by Gender



The Sankey diagram clearly shows the distribution of medals by gender over time. With this other representation, it can also be noted that although female participation has increased, the proportion of medals won by women is still lower, being only 28.29% compared to 71.71% in men.

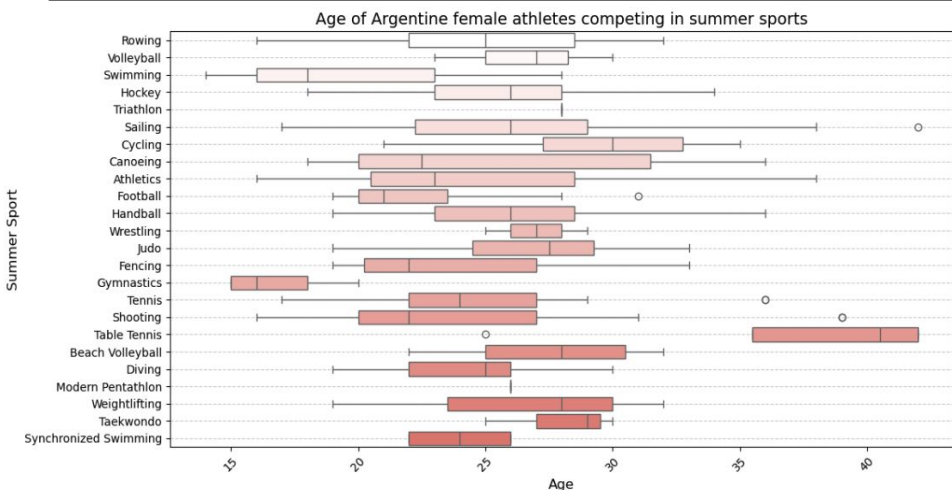
Which sports do women excel the most?



The top 5 sports in which Argentine women participate are Hockey, Swimming, Alpine Skiing, Athletics and Gymnastics. There is a great participation in summer sports, mainly Hockey which is a discipline where Argentina has internationally recognized athletes, being the most outstanding:

Athlete	Medals
1. Luciana Paula Aymar (Hockey)	4
2. Mara de la Paz Hernández Margalot (Hockey)	3
3. Agustina Soledad Garca (Hockey)	3

What about the age?



The average age of participating athletes is 23.7 years old. However, there are some age differences across various sports. For instance, athletes in sports like gymnastics and swimming are typically younger, whereas sports like canoeing exhibit a broader age distribution.