



**Project Ideas:**

* **Olympics** medal data (question: do countries with higher GDP per capita have more medals?)
  + Does economic success relate to higher medal count as a result of more resources for athletes?
  + Comparison between winter and summer olympics
  + Based on conclusions and past data, make predictions on 2021 Olympics

**---------------------------------------------------------------------------------------------------------------------**

**Team Members:**

* Juan Salicrup
* Daniel De la Torre
* Christine Robertson

**Project Description/Outline:**

***Null Hypothesis:*** Olympic medal count is not affected by countries GDP.

Project 1 Proposal – Danny De La Torre, Juan Salicrup, Christine Robertson

* Analyzing Olympics medal count vs. country GDP from the World Bank dataset
* Medal count vs. population

**Stretch goals:**

Comparison between winter and summer Olympics

Based on conclusions and past data, make predictions on 2021 Olympics

**Research Questions to Answer:**

* Do countries with higher GDP have a higher medal count?
* Do countries with a higher population have a higher medal count?
* Does economic success relate to higher medal count as a result of more resources for athletes?

**Datasets to be Used:**

World Development Indicators (GDP) - <https://docs.google.com/document/d/160aqVXI4-k49BZSNZKw0v3cDYfZfDhRCf2DWEWt9dz4/edit>

120 years of Olympic history (medal count) - <https://www.kaggle.com/heesoo37/120-years-of-olympic-history-athletes-and-results>

**Rough Breakdown of Tasks:**

Analysis:

* Stats
  + P-test
  + T-test

Conclusions

Visualization:

1. GDP vs. country - histogram?
2. Medal count vs. country - histogram?
3. Population vs. country - histogram?
4. GDP/capita/country vs. medal count - scatter?