**120 Years of Olympic History**

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*Final Project Plan*

*560.348 - Probability & Statistics for Engineers*

1. **Motivations**

For many people the idea of becoming an olympic athlete is a monumental feat. We hope to demystify this process by statistically determining the best way for potential athletes or even the average person to start training.

1. **Hypothesis**

If we analyze the past 120 years olympic history data, we will be able to determine a relationship between a person’s build and the sports they will perform best with, as well as a relationship between performance in a certain sport and an athlete's origin.

1. **Research Approach**

Categories -> conduct statistical analysis on each category (std, mean, distribution) -> Match to user input -> output results

1. **Methods From Class**

Normal Distributions for ages and weights, Z- score, confidence interval, averages, standard deviations

1. **Data Sources**

Kaggle

1. **Timeline**

May 7th - Submit Poster and Code

May 9th - Poster Presentations

1. **Task Division**

**Arion:** Matlab (Machine Learning Applications), Poster

**Alex:** Matlab (Machine Learning Applications), Poster

**Nikhil:** Matlab (User Interface), GitHub setup

**Justin:** Matlab (Statistics Application), Poster

A**nna:** Matlab (Organization & Commenting), Poster