**ETF Analysis**

Goals of the Analysis

* Investigating the relationship between ETFs, PAR managers, and the fund
* Understanding the relationship between different ETFs
* Visualizing the relationship between ETFs, managers, and the fund
* Drawing statistical conclusions and reinforcing them through visualization
* Examining the stability of statistical conclusions over different time horizons and rolling windows

Programmatic Toolkit

* Apply pandas data structures
* Understanding the difference between tidy and non-tidy data and choosing the optimal data configuration for the required analysis
* Visualization methods and packages (matplotlib, seaborn, bokeh, etc…)
* Statistical methods and packages for measure goodness of fit, p-values,  
  t-stats, covariance, RMSE, etc…
* Applying statistical methods over dynamic time horizons