

Layla Martin

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EDUCATION AND AWARDS *Master of Science in Analytics* Expected June 2015
University of San Francisco, San Francisco, CA

Bachelor of Science in Mathematics, Cum Laude May 2014
University of San Francisco
Dean's Honor Role (4 years)
University Scholar, USF's highest academic scholarship (4 years)

SELECTED PROJECTS *Sentiment Analysis using Naive-Bayes* Graduate

- Classified movie reviews as positive or negative with 75% accuracy by implementing a Naive-Bayes algorithm in Python.

NBA Play-By-Play Data Cleaning Summer research with USF Faculty

- Cleaned play-by-play data for every NBA game from 2006 to 2012 using Pandas (Python).

Analysis of USF Men's Basketball Statistics using R Undergraduate

- Predicted importance of players on the court using simple and multiple linear regression and created visualizations of player statistics using R.

Explaining Artificial Neural Networks (ANN) Undergraduate

- Prepared two student lectures teaching classmates basic implementation and theory behind supervised learning, backpropagation, and pattern recognition with ANN.
- Preprocessed fingerprint images as matrices in Matlab and performed pattern classification using an ANN program.

Mathematical Modeling Research Undergraduate

- Performed image compression with SVD implemented in Matlab.
- Ranked West Coast Conference Men's Basketball teams using multiple centrality ranking algorithms in Matlab.

LEADERSHIP *President*, Pi Mu Epsilon National Math Honor Society 2014
Captain, USF Women's Soccer 2013-2014
Teacher's Assistant, USF Astronomy Observations 2013-2014

SKILLS Python, R, MySQL, PostgreSQL, Matlab, LaTeX, JMP

INTER-COLLEGIATE ATHLETICS *NCAA Division I Women's Soccer*: USF, 2010-2014
• Athletic scholarship (full scholarship when combined with University Scholarship).
• Committed 30 hours per week to training, meetings, travel, competition.