

Matthew Fagan

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Driven product manager with a variety of experience. Designed, developed, and deployed V1 products to enhance analytical strategy and process. Proven track record of adaptation and innovation across job functions. A divergent mind eager to create transformative products.

EDUCATION



M.S. Business Analytics

California Polytechnic State University, San Luis Obispo

2017

GPA: 3.75

B.S. Financial Management, minors in Statistics and Philosophy

California Polytechnic State University, San Luis Obispo

2016

GPA: 3.43

TECHNICAL LANGUAGES & INTERESTS

Proficient in:

R
Jira

Python
Kanban

AWS
SQL

Rshiny
Excel

Analytical Methods: **Machine Learning, Econometrics, Bayesian Analysis, Statistics, Optimization, Forecasting**

WORK EXPERIENCE

Neustar

Product Management (June 2019 – Present)

- Designed, built, and deployed R-based applications to increase analytical efficiency by >20%
- Developed new functions within modeling framework to outperform competitor modeling solutions
- Implemented benchmarking solution to connect disparate data sources across client base and determine industry norms
- Leading initiatives and epics across product suite to redefine UX and streamline internal automation

Statistician (June 2018 – June 2019)

- Built and presented hierarchical Bayesian models for client projects such as Ford, Home Depot, Bank of America
- Designed and implemented enhanced EDA methods to build more intelligent validation system
- Thought leader within the analytical department, creating best practices and standardizing procedures

Data Strategist (September 2017 – June 2018)

- Led data acquisition and validation for client projects such as eBay, AirBnB, and Dignity Health
- Created interactive Exploratory Data Analysis tool to standardize data exploration and cut delivery time by >10%
- Led development of new data delivery UI for client work

PERSONAL PROJECT EXPERIENCE

An Analysis of the Markov Switching Multifractal

- Applied Calvet and Fisher's econometric MSM to the S&P 500, 100, and their volatility indices, the VIX and VXO
- Performed robust testing on statistical significance across multiple model comparison metrics
- Found the MSM to outperform the GARCH at projecting risk at large time horizons (>20 days)

LEADERSHIP EXPERIENCE

Cal Poly Lacrosse – President, Treasurer

Team Treasurer, Team President

- Managed and maintained a \$130,000 budget, including overseeing payments for all coaching staff, clients, and contractors
- Served as spokesperson and team manager between the team and the governing entity in Cal Poly (ASI)
- Awarded Most Committed Teammate by my peers in my senior year

MSBA CULMINARY PROJECTS

Oracle Big Data Challenge

- Awarded 1st place over 4 other teams, winning by providing specific, actionable recommendations
- Modeled sales data from Oracle and presented findings to VP Level Oracle personnel
- Provided modeling with emphasis on precision, minimizing sales waste, and maximizing accuracy

TechStyle Marketing Project

- Awarded 1st place over 5 other teams, winning by providing a specific Regional focus
- Optimized econometric and Bayesian models, using data-driven insight to maximize acquisitions
- Developed an interactive user-friendly dashboard to implement and guide budget decisions

Iowa MBA Business Analytics Competition

- Selected with one other MSBA classmate to team with 2 MBA students
- Performed extensive time-series analysis on 3M sales data and mined for external factors
- Built comprehensive forecasting models that integrated sales across divisional structure