

Mohini Vembusubramanian

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EXPERIENCE

Analysis Group, Los Angeles, CA – *Analyst/Senior Analyst*

September 2018 - PRESENT

- Supported expert testimony in litigation and the launch, approval, and market access of drugs for pharmaceuticals by developing case strategy and executing statistical analyses in R, SAS, and SQL
- Used inverse probability weighting and bootstrapping methods to highlight improved economic outcomes when the client's drug was used to prevent disease progression in patients as compared with existing treatment options in the market to estimate market opportunity for launch
- Assessed comparative clinical efficacy of client's drug against competitors using survival analyses, Cox regression analyses, and Bayesian network meta-analyses
- Determined health resource utilization and costs using IBM MarketScan, Medicaid, and SEER-Medicare claims data to highlight disease burden and market opportunity for client's drug
- Benchmarked mutual fund performance and expenses against peer funds based on characteristics such as classification, assets under management, and investment strategy to prove client's at-issue funds were appropriate investment options and support competitive intelligence for mutual fund industry clients
- Provided guidance to casino hotel client on business impact of marketing program for casino hotel by evaluating customer trends using data from player gaming, coupon tracking, hotel stay detail, and player demographic tables and SQL and R database analysis packages
- Conducted event study regressions to determine the effect of company news disclosures on stock prices adjusting for the impact of the market and industry comparators
- Developed interactive R Shiny dashboards and data visualizations summarizing key metrics for stakeholders not interacting with the data, including case managers and clients
- Led teams of analysts on multiple cases, and conducted R training classes for 20+ newly hired Analysts

Pro bono case work

Currently designing an experiment for not-for-profit network of Haitian hospitals to estimate risk of developing TB amongst patients infected by COVID-19 by conducting power analyses and analyzing hospital data to support advocacy of preventive TB treatment measures.

Unum, Worcester, MA – *Business Development Intern*

June 2017 - August 2017

- Worked with business strategy team to design software implementation strategy for disability insurance company to improve customer experience and increase efficiency of insurance product using sales, claims, and broker data

CoachUp, Boston, MA – *Client Experience Intern*

June 2016 - August 2016

- Analyzed efficacy of client and coach interactions for online private coaching platform
- Trained and worked with outbound sales team achieving run rate of \$10,000 revenue each week

Rumi Spice, Cambridge, MA – *Operations Intern*

June 2015 - August 2015

- Supported social enterprise start-up importing Afghan saffron with customer outreach, marketing, and day-to-day operations
- Led marketing efforts and managed event logistics of Rumi Spice's presence and exhibition booth at Specialty Food Show in New York City (June 2015)

EDUCATION

University of California, Los Angeles – *Statistics B.S., Economics B.A.*

September 2014 - June 2018

GPA: 3.85/4.00, Magna Cum Laude

SKILLS

Technical: R, SQL, Python, SAS, HTML/CSS, Tableau, Microsoft Office Suite

Research Tools: Capital IQ, Thomson Reuters, Compustat, Bloomberg, Lipper, Morningstar