

# BAHATI A. L. BENJAMIN

research@symmetrystats.com | 614.832.7138

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Experienced Statistician with a demonstrated history of achievement in insurance, healthcare, research and education. Skilled in ACO performance models, predictive modeling, cost and utilization analysis, survey design, point estimation, research, lecturing/presentation, key performance indicators, program evaluation and pattern detection with practical business applications of data across various industries and product lines. MA focused on Mathematics: Statistics specialization from Central Connecticut State University.

- Comprehensive knowledge of general linear modeling and decision trees using a variety of software as well as strong data analysis and ability to explain complex findings to individuals at all levels.
- Report preparation and interpretation of data for key stakeholders using both written and oral mediums.
- Ensure accurate analytical processes by following projects from sampling phase to point estimation, including sampling method and size, descriptive and inferential statistics, quality control and presentation.

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## CORE COMPETENCIES:

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**Predictive Modeling \* Program Evaluation \* Contract Risk performance  
Quality Control/Improvement \* Healthcare fraud \* Survey design \* Point estimation  
Lecturing/Presentation \* Key Performance Indicators \* Project Plan Design**

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## TECHNICAL SUMMARY:

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<i>Modeling:</i>	regression, discriminant, scoring models, random & fixed effects.
<i>Statistical tests:</i>	t-tests, chi-square, correlation, analysis of variance, multiple comparisons.
<i>Data mining:</i>	pre-processing data, extracting patterns from data, CART analysis.
<i>Data reduction:</i>	factor analysis & principal components.
<i>Software:</i>	Microsoft SQL Server, SAS, SAS Enterprise Guide, Business Objects, Minitab, Access, Excel, SPSS, IBM SPSS Modeler, C&DS, Tableau.

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## PROFESSIONAL EXPERIENCE:

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SYMMETRY ANALYTICS, WINDSOR, CT October 2024 – present

### **Founder & CEO**

Responsible for providing strategic leadership, overseeing day-to-day operations for the Symmetry Analytics brands. Managing financial resources, budgeting and identifying growth opportunities.

HORIZON BLUE, NEWARK, NJ November 2023 – September 2024

### **Medical Economics Consultant**

Analyze the financial performance of all Horizon Blue Cross Blue Shield products including Commercial, Medicare and Medicaid. Identifying favorable and unfavorable trends and develop recommendations to improve trends, communicate recommendations to management. Develop reports that analyze cost trends on provider level and communicate recommendations to teams including network contacting and care management.

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BOSTON MEDICAL CENTER HEALTH PLAN, BOSTON, MA January 2021 – November 2023

## **Senior Medical Economics Analyst**

Evaluate cost savings for medical policy program initiatives. Analyze utilization and costs for inpatient, outpatient and provider claims across all products to provide benchmarks for contracting. Develop model to predict readmissions for product-based membership. Prepare final settlement for provider groups incorporating risk, unit costs and summary dollars for base and current year.

### *Projects:*

- Develop project plan and analytical strategy to identify and refer high-cost claimants for appropriate case management. Analysis will lead to specialized care for members with co-morbidities.
- Provide analysis for accountable care organizations to nurture member and primary care physician relationships. Insights contributed to improved relationships between members and primary care physician relationships measured by referral ratios.

SOHO HEALTH, HARTFORD, CT March 2019 – January 2021

## **Medical Economics Analyst**

Developed shared savings model utilizing historical utilization and unit costs for multiple commercial and Medicare advantage contracts. Perform analyses of actual cost and utilization against line of business benchmarks or targets. Work with clinical and finance teams to understand and identify drivers of quality, engagement and utilization. Prepare analysis for internal and external stakeholders focused on reducing costs and financial performance against target. Manage risk performance reporting on all contracts.

### *Projects:*

- Develop models to predict outlier patient costs using key health measures such as HCC counts, smoking status and social determinants of health.
- Analyze risk stratification of patient population to develop patient profile for Medicare Shared savings program.

COMMUNITY HEALTH CENTER, MIDDLETOWN, CT October 2018 – March 2019

## **Quality Improvement Data Analyst**

Manage the collection, analysis and reporting of data to support attainment of performance goals for key population health improvement measures. Coordinate the development of quality improvement measures for the agency for medical, behavioral health, dental and agency operational metrics. Data collection, database development and statistical analyses from information gathered in patient surveys, electronic health records, administrative database and other sources. Benchmark and access progress against other agencies as well as maintain and coordinate compliance for the quality improvement department. Support clinical care teams with data regularly and as needed to improve clinical performance.

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METROPOLITAN LIFE INSURANCE COMPANY, BLOOMFIELD, CT May 2011 – July 2018

## **Senior Data Scientist**

Analyze claims data to monitor diagnoses performed, predict likelihood of return to work, estimate cost savings, improve customer net promoter scores and develop key performance indicators measuring case specialist efficiency. Predict return-to-work likelihood occurrences utilizing logistic regression, providing actual to expected calculations as a measure of model validity. Identify claims appropriate for transition by developing a prioritized data set to ensure that the right claim receives timely review by the core team.

### *Accomplishments:*

- Prepared summarized reports of disability standard return to work times by creating tiered percentiles of historical data to improve claim handling time.
- Improved company net promoter score (NPS) by creating metrics monitoring customer survey results. Developed scorecard measuring key performance indicators of case specialists to facilitate appropriate employee engagement for management.
- Predicted likelihood of workers compensation using claimant demographics such as job class, diagnosis and region.

HP - SAFEGUARD SERVICES, EAST HARTFORD, CT August 2007 – April 2011

## **Statistician**

Query Access & Business Objects databases to create summaries, derive new variables and identify patterns in Medicare datasets. Analyze provider comparison reports to identify clusters of inappropriate billing activity with procedure code, diagnosis code and modifier analysis. Developed mathematical model to detect significant increases in provider Medicare billing. Construct point estimates and confidence intervals for overpayment funds to be returned to the Medicare trust fund. Developed first discriminant model which allows fraudulent providers to be identified quicker to prevent future loss of funds to the Medicare trust fund.

ELECTRONIC DATA SYSTEMS, EAST HARTFORD, CT July 2005 – August 2007

## **Statistician**

Generated random samples (stratified: optimal/equal allocation, simple random sampling, etc.) for the investigation of fraudulent Medicare claims utilizing SAS, Access, Visual Basic programs and Excel. Created summary tables of overpayment funds to be used in Excel for correlation analysis and confidence intervals of Medicare funds for healthcare providers in Excel. Calculate appropriate sample size for the review of medical records in conjunction with law enforcement requests. Conduct review of fellow statisticians sampling process and documentation for overpayment projections to ensure accuracy and compliance with Medicare guidelines. Presented data analysis findings to law enforcement officials for further investigation of fraud and/or abuse to the Medicare program.

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## EDUCATION:

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CENTRAL CONNECTICUT STATE UNIVERSITY, New Britain, CT

Master of Arts in Mathematics: Statistics specialization, May 2010

TALLADEGA COLLEGE, Talladega, AL

Bachelor of Arts in Mathematics, May 2002