**Dr. S. Mantravadi, PhD, MSHCM, MPH, CPH, CHES**

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**Dr. S. Mantravadi, PhD, MSHCM, MPH, CPH, CHES**

# EDUCATION

**PhD in Public Health, Management and Policy Sciences Division**, *GPA 4.00,* 2016

University of Texas Health Science Center

Health Economics Emphasis/Health Services Research track

Minor: Biostatistics, Health Information Technology and Epidemiology

**Master of Science**, Health Care Management Major

*Special Recognition in Graduate Studies*

College of Business and Economics, AACSB accredited

**Master of Public Health**, *GPA 4.00*, Community Health Education Major

Council on Education for Public Health Certified Program

**Bachelor’s Degree**, *Honors in Biology*

*Summa Cum Laude, Presidential Scholar*

**SAS Certifications**

Programming 1: Essentials and Programming

Programming 2: Data Manipulation Techniques

**Collaborative Institutional Training Institute (CITI) Program Certification**

Social Science & Behavioral Researchers and Key Personnel

**Lean Leadership Training,** Adaptive Business Solutions, Written Exam 90%

**Lean Six Sigma Green Belt Training**, Adaptive Business Solutions, Written Exam 92%

**Python Training and Application,** BlueGranite-Microsoft Partner

# SALIENT PROFICIENCIES

Have Required Skills to Assist Decision Support Analytics Capacity Management and Organizational Improvement Efforts; Represent them & Enterprise Shared Services Brands to Leaders of Core Processes.

Have Necessary Experience to Assist Training of Enterprise Optimization Team Members on Basic Technical and Analytical Skills

Have Skill Sets to Partner with IT and Analytics Teams to Develop Enhanced Analytical Capabilities.

Extensive Experience in Health Insurance Products, Claims, Enrollment & Billing.

Excellent Knowledge of SQL, Inferential Statistics, DataAnalysis, Visulaizalization, Interpretation, and ability to Identify Trends of Large & Complex Datasets.

With my rich holistic experience, training, continuous professional development, and commitment, I look forward to develop and interpret analytic reports. My forte and interest are in identifying, quantifying key drivers for the Health Business, explore areas of opportunity, and make recommendations by evaluating effectiveness, patterns, costs & trends. I look forward to playing the role of both as a team leader and a team member on projects to facilitate meeting goals, providing necessary technical guidance etc.

Forte in Manipulating Data using Large Datasets from Multiple Data Sources

Advanced Level Experience with Data Extraction/Modify Existing Programs and Integration using

SQL /SAS etc. along with Strong Excel Skills

Good Management Skills, Committed and always take an Extra Step by taking Ownership of Responsibility, and Plan Ahead for Meeting Project Deadlines

Independently have Managed Several Tasks, and have Demonstrated Leadership Skills on Team Projects by Sharing Knowledge and Conflict Resolution by Suggesting Alternatives for Project Goal

Clear Communication Skills by Articulating in a Precise Way Based on the Audience by Summarizing Key Findings

Excellent Critical Thinking Skills to Evaluate Alternatives Solutions Consistent with Business Objectives and Strategy with my thorough Understanding of Subject Content/Technical Skills

**Health Economics**

Advanced Health Economics and Econometrics for Health Outcome Research, Econometrics in Public Health

Methods of Economic Evaluation of Health Programs, Claims Data in Health Care Research

Behavioral Economics, Comparative Effectiveness Research, Pay For Performance, Implementation of Healthcare Reform, Production of Health, Demand for Healthcare Services

Economic Development & Population Health In Low Income Countries, Economics of Vaccine Production & Distribution, Women’s Health & Labor Market Participation

Strong foundation in Mathematical Models for Micro economics & Econometric, Mathematical Economics, Economic Evaluation, Cost Benefit, Cost-effectiveness & Cost Utility Analysis, Model Mispecification; Optimization, Maximization-Minimization, Lagrangian theory, Supply, Demand, productivity, markets, Cost Containment Efforts, Cost Behavior, Cost Curves, Graph Theory, Centrality, Prestige & Prominence, Structural Equivalence, Block Models, Dyadic & Triadic Analyses, p1 and Exponential Random Graph Models

**Data Management** Experience with Large datasets

Consumer Assessment of Healthcare Providers and Systems (CAHPS)

Health Outcomes Survey (HOS)

Advanced Comprehension of Data Merging & Population Based Data, such as:

Surveillance Epidemiology & End Results (SEER)

Medical Expenditures Panel Survey (MEPS)

Medicare, Medicaid, Consumer Assessment of Healthcare Providers & Systems linked to Medicare claims, and National Survey of Giving, Volunteering & Participating

National Health Examination and Nutrition Survey (NHANES)

National Center for Health Statistics (NCHS) Data, and Survey Data

Healthcare Cost & Utilization Project (HCUP)

National Nursing Home Survey

California Office of Statewide Health Planning & Development (OSHPD) Data

Texas Health Care Information Collection, Knowledge of Texas Cancer Registry

**Statistical Software**

Experience Writing SQL Queries to Retrieve Data from Multiple Relational Databases such as SQL Server.

MySQL, SAS Macro, SEM, TreeAge Pro 2011/Decision Analysis, STATA software, *MPlus,* SPSS, R programming, Tableau/Information Visualization, Advanced user of MS Office (Word, Excel/Workbook, PowerPoint, Access/Database, Publisher) software, EndNote, Refworks & Advanced Research Database skills

Knowledge of telephony infrastructure (IVR, ICM, etc.) and call analytic tools (NICE, Nexidia, Clarabridge, etc

Graph Theory, Centrality, Prestige & Prominence, Structural Equivalence, Blockmodels, Dyadic & Triadic Analyses, p1 and Exponential Random Graph Models.

Use of software packages for network analysis – R (igraph and statnet), VisuLyser, NodeXL

PHP, Toad Data Point, Python

**Bio-Statistics**

Latent Variables/Psychometrics Models & Factor, Statistical Modeling using Longitudinal Data, Selection Models, Regression, Survival & Time Series Analyses, Non-Parametric Statistical Methods, Sample Survey Methods and Probability Theory/Principles underlying Statistical Design of Experiments, Statistical Design of Experiments, t-tests, z –tests, Inferential Statistics

Categorical Data Analysis, Kendall’s Tau-B, Cronbach’s Alpha, Hypothesis Testing, Chi Square Analysis, Inferential & Descriptive Statistics & Research Design, Duration Modeling (Survival Analysis) Cost-effectiveness Analysis, Sample Survey Methods, Demographic Techniques, Life Table Analysis, Probability Theory, Monte Carlo Simulation, Markov Modeling, Distribution-Free Statistical Methods

Data Science Analytics Methods, Methods for Analysis of Change: Applied Longitudinal Analysis

**Healthcare - Management, Finance, Accounting & Informatics**

Experience with Project Management, Six Sigma, and Change Management Disciplines.

Knowledge of health insurance products, claims, and enrollment and billing.

Human Resource Management, Management & Organizational Behavior, Operations Research, Managing Managed Healthcare Organizations, Administration, and Management, Marketing

Accounting, & Financial Management of Healthcare Organizations & Healthcare Systems, Financial Statement & Ratio Analysis, Cost Behavior, Time Value Analysis, Break-Even Analysis, Comparative Data & Forecasts

Healthcare Information Systems - Visualization in Health Information Visualization & Visual Analytics, Fundamentals & Applications of Geographic Information System (GIS)

**Health Services Research, Healthcare Policy & Health Disparities**

ICD-9, CPT, HCPCS & DRG codes, Prevention Strategies & Levels, Effectiveness & Outcomes Research, Measurement Error, Health Care Reform & Affordable Care Act implications, Payment systems, Health Services Delivery & Performance, Health Outcomes & Quality Research, Comparative Healthcare Systems: Policy Challenges & Economic Perspectives, Economic and Social Determinants of Health

**Public Health**

Community-based Participatory Research, Community Coalitions, Program - Planning, Implementation & Evaluation, Intervention (Mapping), Health Behavior Theories, Program Performance Evaluation, Analytical/Assessment Skills, Health Policy Development/ Planning, Health Communication, Cultural Competency Skills, Community Dimensions of Practice, Public Health Sciences, Financial Planning & Management, Leadership & Systems Thinking

Federal Emergency Management Agency (**FEMA**) Independent Study Program Course Certificate: Awareness & Preparedness: Animals in Disasters, Community Planning: Animals in Disaster, Citizen's Guide to Disaster Assistance Diversity Awareness, Household Hazardous Materials, Nuclear/ Radiological Incident Annex, Guide to Points of Distribution etc.

**Other Skills**

Significant Critical Thinking Skills to Evaluate Alternatives and Present Solutions that are Consistent Business Objectives & Strategy.

Able to Manage Tasks Independently, take Ownership of Responsibilities & Meet Deadlines.

Confident, Effective Communicator, Both Verbally And In Writing, With All Levels of an Organization and with Both Technical & Non-Technical Audiences.

Research Methods, Curriculum/Educational/Project Summary Development, Mastered the Art of Learning and Excelled the Adaptability to the Project at Hand, Quick Learner, Commitment to Stride the Extra Mile to Complete the Project as Needed, Excellent Team Leader & Team Member s

# WORK EXPERIENCE

**Blue Cross Blue Shield Florida (Florida Blue)** ***Full Time*** June 2017 to Present

**OPERATION ANALYTIC CONSULTANT**

Decision Support Provider: Using Data Analysis and Process and Control Improvement Tools to Enhance Business Outcomes

* Analysis and Data Exploration for Under 65 Health Insurance for ACA Marketplace products
* Project Plan Development
* Training and Mentoring Decision Support Specialist on Payment Disputs Data Sources, Analyses, and SQL Queries

Lead Data quality Team Strategic Initiatives

* Identification of Data Quality Errors on Reconciliation & Payment Disputes Process and Data Sources
  + Enrollment Data
  + ReconciliationFiles from Marketplace
  + Invoice and Billing Data
  + Exceptions Data, Transaction Data from PSP and Edifecs
* Premium Rate analyses comparison of Enrollment eliglibility vs Billing Invoice records, for CMS submission via Vendor
* Rating Area Analyses for Payment disputes without enrollment records, in County level Rating Area Mismatches between Enrollment and CMS FFM records
* Metrics analyses of Reconcliation Process – Health of Inventory
  + Development of Metrics to holistically view the reconciliation process, on cyclical basis for management
* Operationalization of Data Quality Problems and Business Impact
* Creation of Short Term and Future State Plans
* Lead Daily Meeting with Internal Customers, in Matrix Structure
* Collaboratign with External Customers, Workforce Managemet Teams to Allocate Inventory

Marketplace Post Service Processor (PSP) and Edifecs Exceptions Analysis

* Upstream Evaluation of Marketplace Enrollment Recrods for On Exchange and Off Exchange ACA Plans
* Transaction Event Analyses
* Exceptions Analysis

Exploratory Analysis and Joins for Payment Disputes and CMS RCNO Processes for ACA Marketplace Exchange

* Identification of CMS Updates in Reconcililation with Marketplace

User Acceptance Testing of Cognosante Billing Files

Florida Blue First: Staging Schema analysis of database and Connecting Request Data to Enrollment and Phone Data

* Member Level Detail Per Phone Call and Service Request
* Per Member Per Month (PMPM) Evaluation of Phone Calls Per Line of Business

Workflow Evaluation for Universal Agent processes: Transitioning between Contact and Enrollment Process

Consulting with IT Developers, Member Contact, and Enrollment for Under 65 products

Provides insights fro Continuous Improvement, Audit, and Customer Experience Departments, of Enterprise Shared Services Division

Analyzed Data to Provide Actionable Insights & Recommendations that are Used as Decision Support

Tools by Operational Leaders. the Analysis Enables Business Units to Achieve Their Full Value Through Improved Process Effectiveness.

Primary Analytical Support Resource for Large Scale Programs of Continuous Improvement Work Efforts to Achieve Stated Goals.**.**

Developed Detailed Understanding of How Core Processes Across the Enterprise Function with

Wrote SQL to Measure Process Inputs & Outputs.

Wrote SQL to Collect, Parse, Cleanse, Manage, Analyze &Visual Large, Complex Sets of Data from a Range of Relational Databases to Prepare them for Analysis.

Used Inferential Statistics, Discrete Event Simulations & Constrained Optimization In R, SAS, Python, or Similar to Perform Analyses.

Deliver Actionable Insights & Recommend Strategies to the Leaders of Core Operational Areas Across the Enterprise.

Utilized Critical Thinking to Proactively Identify Improvement Opportunities that Drive Positive Change in Enterprise Kpis to be Included in Future Continuous Improvement Work Efforts.

Applied Project Management & Change Management Methodologies in Support of the Implementation of Process Changes in the Core Operational Areas.

Provide Analytical Support to Other Teams Within the Enterprise Optimization Organization to Drive Improvements in Their Operations.

Partner With IT & Analytics Teams to Develop Enhanced Analytical Capabilities.

Assist With the Training of Enterprise Optimization Team Members On Basic Technical Skills.

Participate in the Peer Review of Work to Ensure the Quality of Deliverables.

Performed Other Job Duties as Assigned.

**SENIOR HEALTH BUSINESS ANALYST-STARS**

Florida Blue

*GuideWell Revenue Program Management (RPM)/STARS Center of Excellence, Advanced Analytics and Modeling*

Comprehensive Analytic work, ranging from medical costs analytics, GIS analysis of preventive care hotspots, Customer Service survey soces (CAHPS/HOS), predictive modeling, and exploratory analysis, allowed Florida Blue to capitalize on a CMS STARS Rating Bonus of $30-50 million dollars

* One of the pioneer analysts involved in improving Medicare STARS ratings from 3-3.5 stars to 4-5 stars for 2019 plans
  + One of 15 Medicare Advantage plans nationwide with a 5 star rating, and the only plan in Florida with a 5 star rating for the Prescription Drug Plan (PDP)

Consumer Assessment of Healthcare Providers & Systems (CAHPS) and

Health Outcomes Survey(HOS) Subject Matter Expert

**Predictive Modeling**

Predictive Model of CAHPS Measures

* Rating of Health Care Quality
* Rating of Health Plan
* Rating of Prescription Drug Plan
* Likelihood of Survey reponse

Lead Analyst for Model Development

* Data Sources
  + Imputation
  + During Data Cleaning and Modeling stages, Detect Error in Sampling Methodology for Off Cycle Medicare Advantage CAHPS survey implemented by Vendor
* Time Frame
* Features Selection
* Data Generation
* Model Development/Testing
  + Training/Test Sets
    - Effect Selection and Machine Learning
    - Drivers of Outcomes
* Scoring of Member Enrollment

**Drivers Analysis-Sole Analyst**

BCS/COLO (Breast Cancer Screening/Colorectal Cancer Screening) Workgroup Analysis of Drivers; Fishtail Diagrams for Cause and Effect

* Drivers of Colorectal Cancer Care Gap Compliance by Compliance Event; Healthcare Effectiveness Data and Information Set (HEDIS) Engine Data Source
* BCS Compliance & Distance To Rendering Providers; Capture Access to Care with Contracted Providers
  + Noncompliant/Compliant Members (Volume) & Geospatial Location of in Network Contract Radiology Providers
  + Presence/Absence of Compliant Event 2 Years Prior and 27 months prior HEDIS National Committee for Quality Assurance (NCQA) definition Among Currently Noncompliant Members & Geospatial Location of Rendering Provider; Continuity of Care Among Patients
  + In/Out of Network providers impact
    - Program Targeting for Provider Outreach

**HOS Workgroup Analysis**

* Year to Date HOS Proxy Measures – Currently Used for Member Engagement
* HOS Strategy – Members With Highest Probability of Having at Least a Decreased Physical Component Score (PCS) Score, To Be Targeted in Similar Geographic Clusters, Near 10 Miles Radius of Retail Center

**Health Level 7 (HL7) – Health Analytics Team Lead**

HL7 Data & HEDIS Rates Data Source; Evaluating Value of Supplemental Data in Closing Care Gaps

* Availity Suplemental Data Sources
* 27 Commercial & Medicare Care Gaps
  + Continuing Report for Demonstrating Business Value
  + Lead Business Analyst

**Outcomes Analysis**

High Touch Provider Early Indicator Analyses

* Increase Engagement with Providers & Groups With Low Member Attributed Count
* Algorithim for attributing members to providers selected for program
* Algorithm fine tuning for Provider Engagement, Disengagement, Que’d for contact, or Non contacted metrics
  + Plan All Cause Readmissions, Presence of Attributed Member Visit to Provider Group
  + Closed Care Gaps Since Start of Program
  + Medication adherence and Statin use
  + Impact on measures, pre-post Medication and Readmission Alert systems

Drivers & Outcomes Analysis of Member Engagement Program

**Analytics Work**

Drivers Analysis of Decreasing Flu Shot Rate (Proxy Measures), and Medicare Advantagae CAHPS Plan Impacts

* Regional, Point of Service, and Year Over Year (YOY) views

Audit of Vendor Impacts on Health Care Quality and Care Gap closures, Based on Lab Event Data/Lab Results & Encounters

* Lab Results Analysis
* Encounters Analysis

Geographic Information System (GIS) Analysis for 2019 Planning of Quest Laboratories, and Quest Laboratories Colocated within Walmart, and Impact on HEDIS Measure Gap Closures & STARS Ratings

Development & Production of HOS Proxy Measures to SQL Server Deployment

Monthly Reporting Automation of Regional, Retail Center, & Mobile Outreach for Specific Care Gaps

Impact of CAHPS Measure Categories on STARS Rating Thresholds

Places of Delivery Monthly Refresh Report for Exeucitve Summary

Current Care Gaps & Compliance Likelihood Report for Medicare Members Rewards Outcome Analysis

Member Centric Analysis of STARS/HEDIS data, with Provider Attribution; within 5 Miles of Retail Center & County Details

**Consulting Work**

For CAHPS – STARS Department

* Integrated Marketing Intelligence, Sr. Director of Medicare STARS

For HOS Survey Reports, Executive Team

For IT Team

* HL7 Data – Discussion of Next Steps & Summary
* Improvement by Measure Due to Consoldated Clinical Document Architecture (CCDA) Supplemental Data Source (SDS) Data; Illustration of Improvement Analysis, Source Feed, And Medical Codes

**SENIOR HEALTH BUSINESS ANALYST-Health Economics**

**Lead Analyst**

Consumer Assessment of Healthcare Providers & Systems (CAHPS) and Health Outcomes Survey (HOS)

Analysis of Medicare Survey Measures Related to Star Quality Ratings; Includes CAHPS & HOS and Beneficiary Level Data Analysis of Drivers

Replication of CMS CAHPS Case Mix Adjustment Methodology for Off Cycle Mock CAHPS Survey

Write SAS and/SQL Programs and Modify Existing Programs for Data Extraction, such as for HOS Proxy Measures

Pre-CAHPS and CAHPS Messaging Sample Analysis

Evaluate Claims, Enrollment, and Demographic Data for HOS Member-Level Survey Data to Identify Top Predictors of Self-Reported Health Measures

A Florida Blue first: Creation of First Enterprise wide Development of Proxy Measures and Forecasting Analysis that Provide Real Time, Early Views into CAHPS/HOS Performance.

CAHPS/HOS Support for Team Peer Review

Assist in Training Other Team Members on Basic Technical Skills, and CAHPS/HOS Methodology

Impact of Projected CAHPS Off Cycle Survey Composite Scores on STARS Ratings, Trends in CAHPS On and Off Cycle Surveys, Demographic Dynamics Between CAHPS On and Off Cycle Surveys, and Impact of Case Mix Adjustment on STAR Ratings

Flu Shot & Mock CAHPS Surveys; Comparisons Between Rates

HL7 Data & HEDIS Rates Data Source; Evaluating Value of Supplemental Data in Closing Care Gaps Within 3 Scenarios

* Athena Suplemental Data Sources
* 3 Medicare Care Gaps
* Working with IT Team
* Presentation to VP of Finance-RPM, VP of Medicare STARS

Development & Production of HOS Proxy Measures to SQL Server Deployment

GIS/Heatmap Analysis of BC Screening Measure & Distance from Rendering Provider; Aggregated at County, Zipcode & Regional Level

GIS/Heatmap Analysis of BC Screening measure, from Retail Centers, as well as Regional Analysis of All Medicare STARS Care Gaps – for Both Focused & Mobile Outreach; Developed Report Enhancement To Illustrate Monthly Changes In Care Gap Closures

BCS Care Gaps – Heatmaps Statewide for Targeting of Vendor Outreach

Geospatial Analyses of Costs, PCP Provider Attribution, Member Level Detail, and Enrollment Near Emergency Room Visits & Urgent Care Centers to Reduce Unnecessary Emergency Room (ER) Visits

* Create Algorithm to Identify ER &Trauma Care Claims

Heatmap of BC Screening Measure & Members with Multiple Care Gaps; Involved with Marketing Set Up

Retail Centers & Multiple Care Gaps Analyses – Geospatial Analysis

**STAR Analytics**

Identify & Quantify Key Drivers for Medicare STAR Rating Program, Investigate Areas of Opportunity, Evaluating Effectiveness & Make Recommendations.

Provides Analytic Expertise in Medicare STAR Analytics to Support Effective Outcome & Population Support for Business.

Pre/Post Analysis of All Campaigns Related to Florida Blue’sQuality/Stars Initiatives**,** Generate Insights to Optimize All Campaigns & Improve Customer Experience

Medicare Advantage Member Statistics for BCS, Colorectal Cancer Screening (COLO) & Osteoporosis Management, Yearly Claims Analysis for Projections

Analyzed Natural Disaster Impact on Member Health Care Utilization & Activity and Impact on STARS Ratings

HOS Physical & Mental Health Models to Target Outreach for Medicare STARS Ratings

HOS Measures Improvement & Member Engagement: Vendor Campaign

* Study population selection, using eligibility criteria and definition of outcomes analysis
  + Eligiblity File with Novu Vendor for Member Engagement: Involved in Vendor program management, Creation of Eligiblity File from Compliance Rates of HOS Proxy Measures, Formatting, Updates of Undeliverable Addresses & Phone Numbers
* Monthly Reports; Involved in Weekly Status Reports
* Exposure and outcome measures definition
* Statistical methodology and Campaign Analysis

Univeristy of Florida Shands Supplemental Data Analysis; Evaluating Member Care Gaps & Roster Files

**HEDIS Measures Evaluations /HEDIS Impact on Medicare STARS Performance Metrics (**Ratings)

Preventive Measure Evaluations

Mammogram Center Procedures for the State of Florida. Oct-Dec 2015, 2016, 2017

Analyzed & Worked with VP of Medicare Stars, for Action Implemented to Follow-ups on Mammogram Claims & Increase Star Rating.

Analyzed Resubmission & Rejected Claims for Mammogram Services, 2015-2017: Member Level Data of Provider Information, Measure Eligibility, Noncompliance & Rejection/Resubmissions of Claims

Supported HEDIS DRE Gap Chase; Identified Lead Claims for Gap Chase of Noncompliant Members

Snapshot of Medicare Caregaps for Welltok Member Rewards Initiatives

Diabetic Diagnosis Within 10-20 Miles of Retail Centers (Geospatial Analysis), Using Claims & HEDIS Definitions

**HEDIS Chart Chase**

Diabetic Retinal Exam (DRE) Noncompliant Members – Drivers/Reasons Behind Noncompliance;Evaluated Provider Taxonomy on Member Claims & CPT II Codes

DRE Chart Chase for Noncompliant Members – 2013-2017

HBA1C Testing; Algorithm to Test for Diabetic Panel & A1C testing

Medication Reconciliation Post-Discharge (MRP) Claims Analysis

Cardiology Visits

* Evaluated Cardiology Visits for Members with High Blood Pressure – Based on 2 Algorithms
* Presence of Non Acute Visit or Diabetic Diagnosis
* Out of State Members

**Outcomes Analysis/Marketing Analysis**

Evaluated & ROI Analysis of New to Measure Members with Single & Multiple in BC & COL Screening Care Gaps, Over 90-day Period; Marketing Campaign Analysis

Evaluation of New to Measure Members with Diabetic Measures (Diabetic Eye Exam, HBA1C, Nephropathy) Care Gaps, Over 90-day Period; Marketing Campaign Analysis

Collaborated with Multiple Teams to Assess Ongoing Data Requirements &Translated those Needs into Actionable Initiatives

Manipulated Data Using Large Datasets & Multiple Data Sources

Tableau-based, GIS Analysis of All (as well as Screening) Care Gaps, Statewide

Analyzed Processes & Programs Analysis to Achieve Stated Goals. Provided Analyses & Recommended when Corrections were Needed.  Investigated & Discovered Areas of Opportunity

Monitored & Evaluated Patterns, Costs & Trends

Developed Excel-Based Models & Spreadsheets with Advanced Functions to Evaluate Historical Trends/ Forecasts & Identified Best Practices.

**Customer Service-related Projects**

Worked with Internal Customers to Help Guide Florida Blue’s Decision Makers (Executives to Front-Line Leaders) to Understand Current Performance Around These Measures.

Provided Analytical Recommendations to Improve Customer Ratings with Consulting, Analytics & Problem-Solving Skills.

Developed Insightful & Actionable Summaries and Recommend Actions

Consulting for CAHPS, STAR Ratings, Historical CAHPS Ratings, Crosswalk Comparisons

Assisted with Execution of Ad Hoc Analysis of Customer Behavior or Marketing Activity Effectiveness

**ADJUNCT FACULTY,** *Part time*, Spring 2018

**Jacksonville University, FL**

Mentoring/Teaching: Master of Science in Health Informatics Courses

Online: Epidemiology and Evidence-Based Health Informatics

Key Standards in the Health Care Industry (Online)

Advanced Health Care Database Management

Advanced Health Informatics II

Advanced Systems Analysis

**CLINICAL ASSISTANT PROFESSOR, *Full time***, Fall 2016- Summer 2017

University of West Florida (UWF)

**Analytic Skills Utilized for Projects**

Worked on Research Projects on Use/Applications of Healthcare Analytics/Economics

Focused on Analytics in Healthcare, Healthcare Costs, Outcomes Research

Analyzed Healthcare Data & Performed Research on Health Insurance, Medicaid, Health Utilization, Various Priority Diseases & Health Outcomes

Used Health Economic Modeling for Analyzing Large Healthcare Datasets

Utilized Panel Data Analysis (Fixed Effects), Nonparametric Statistics, Data Modeling, Healthcare Cost Modeling, Big Data Analysis Techniques

Solely in Charge of All Aspects of Study Analysis & Statistical Troubleshooting, Determining Appropriate Model & Conceptual Interpretation, & Manuscript Writing

Employed Statistical Tools, such as SAS, Stata, R, Tableau

Developed Workshops & Presentations on Healthcare Analytics

**Designed &Developed** Courses in Health Admintration Courses

Graduate and Undergradaute Health Economics Course

**Project Proposals:**

Assessment of Community Resilience Planning in a Disaster Prone Low-Income County with an Emphasis on Resilient Homes and Public Health.

Pensacola Bay Watershed Climate Resilience Applied Research (PCRAR)

**Leadership Role**

Faculty Search Committee **Chair** for Assistant Professor Health Informatics

Faculty Search Committee Member for Heath Care Finance, Human Resources

Search Committee Memberfor Department Office Administrator

Program Proposal for Pre-Healthcare Bachelor of Science Program

Department Finance/BudgetMeetings

Health Sciences Admission Committee

Wrote Recommendation/Reference Letters to Students

Master of Health AdministrationCurriculum Committee

Represented Department in College of Health Meeting

Mentored/Taught Graduate & Undergraduate Health Administration Courses:

Offered for the first time at UWF: Health Economics, Healthcare Finance, Healthcare Law

Health Delivery Systems

Understanding U.S. Healthcare

End of Life

**Professional Development**

Conferences Attended

Women in Leadership Conference, UWF

Workshops Attended

Center for University Teaching, Learning, and Assessment Workshops Participation:

Backward Design: Designing Courses and Assignments with Goals in Mind

Disseminating and Archiving your Scholarship with UWF Institutional Repository

Diversity/Conflict/Leadership Develop

Document: Quality of Your Research, Service and Teaching

Grant Writing

Kick-Off Mentoring Program

Tenure and Promotion

Responding to/Evaluating Student Writing: Strategies/Methods for Feedback Tenures/Promotion

Quality Matters (QM) Certification Courses Completed

Teaching a Quality On-line Course in eLearning/Online/Blended, Improving Your Online

**RESEARCH ASSISTANT**, ***Full time***

**University of Texas Health Science Center**

*Promotion and Behavioral Sciences Division*

Collaborated on several projects using advanced programming and applied econometric/statistical analysis methods

Independently performed all Econometric and Statistical Analyses for all projects

In charge of Data Management, Data Cleaning, Reshaping Datasets, Dataset Merging, Statistical Analysis and Programming with SAS, Stata and R. Analysis techniques used included Data Transformation, Linear Regression, Multinomial Logistic Regression, Ordered Logistic Regression (ologit)

Panel Data Analyses (Fixed Effects), Social Network Analyses.

Solely in charge of charge of all aspects of Study Analysis and Statistical troubleshooting, Determining Appropriate Model and Conceptual Interpretation, and Manuscript writing

Development and Evaluation of a novel strategy for reduction of stress through mutual support group - Generated New/Transformed Variables, Descriptive Statistics, Central Tendency, Independent Sample t-tests, Linear (logarithmic transformation of dependent variable),

Logistic (logit), Poisson Regressions

Community Coalitions Preventive - Exploratory/Confirmatory Factor Analyses using MPlus/SAS, Selection Models, Time Series Analysis and Social Network Analysis using R (statnet and igraph)

**Completed** Collaborative Institutional Training Initiative (CITI Program**)**

*Management Policy and Community Health Division*

**Managed/Supervised**

Graduate (PhD and Masters level) Courses with Lead Faculty

Doctoral Dissertation proposal development in Management, Policy and Community Health

Quality Management and Improvement in Healthcare

Introduction to Management and Policy Sciences

Healthcare Operations Management

Understanding Organizational Behavior in Health Services Organizations

Texas Health Policy: Emerging Issues of Health Program

Capstone course for MPH students

**Directed**

Online Instructional Dashboard & Discussion Boards

Independently graded & Evaluated Course Submissions

**Generated**

Test Questions on Concepts in Quality Improvement

Reviewed Feasibility of the Institution for: Certificate/Non-Degree Program in Healthcare Management

**Coordinated**

Student Presentations, Classroom Technology (ITV Troubleshooting)

**Assisted in Drafting**

Doctoral Competency Requirements of Commission on Accreditation of Healthcare Management Education (CAHME*)* Certification for Health Management, Dual Degrees in Business of Healthcare Management (MD/MBA, MD/MPH)

**RESEARCH ASSISTANT, *Full time***,Summer 2011

**National Council of La Raza (NCLR)**

**Center for Latino Community Health, Evaluation and Leadership**,CSULB

Enriched the Health Care and Related Education of the Latino population in a holistic manner

Renovated Center’s Social Networking Site and Recruitment for following year YES! Program participants

Created telephone survey scripts in English and Spanish

Participated in grant writing for a successfully funded (Sep. 2011) STEM project for CSULB Latino enrollees

Involved in HSI: Mi Casa: Mi Universidad Project, CSULB’s U.S. Department of Education (USDE) initiative to transform the university into a Hispanic Serving Institution.

Participated in HIV **White** **paper**submission, formulated background information for publication on NCLR Latino Families HIV/AIDS Needs Assessment, and analyzed focus group data for 9 cities using data memoing on HIV among Latinos, for trends.

Verified and fine-tuned Year 3 workshop instruments for IRB approval, and completed IRB packet for Year 3 YES! Program participants

Mentored, tutored, and engaged in Youth Empowerment for Success Program (Yes!) by creating surveys, reliable and valid nutrition instruments, and reformatting posttests for Latino youth.

Taught in Health Digital Media Sessions with Latino schoolchildren in collaboration with local YMCA, to create a new generation of leaders who would empower their community on various health topics

Developed HSC/NUTR 333 course and USDA for nutritional projects in Comienzo Sano

Created informational lesson plan for physical activity workshop

**Research Projects Completed**

An Obesity Prevention Model Program

Violence Is Preventable (VIP) Model program: An Estimated Cost Analysis

Arsenic in the Mainstream: A Concern in Food Safety.

Acrylamide: A Potential Indicator of the Obesity Epidemic.

Addressing Acinetobacter Infection: By Focusing on Healthcare Professionals Hand Hygiene Techniques

Malignancies in the Oro Facial Region due to Actinic Exposure.

Exploring the Myriad Etiologic Factors of Xerostomia.

Review of Etiology, Histopathology, Immunohistochemistry & Diagnostic tools for Sjögrens Syndrome.

**GRADUATE RESEARCH EXTERN**, *Part time*, Summer 2011

**Advisory Council- Hunger Project, Past Chair Dr. Earl Babbie**

Addressed Health management at Societal level; with food insecurity as a Smeasure to determine hunger

Performed needs assessment for world hunger and methods to reduce poverty

Formed implementation plan, including updated best practices from current hunger programs and global hunger recommendations

Tailored strategies for poverty to act for hunger as well

Created SHOC program process & summative evaluations; used previous organizations templates

Designed a hunger program and subsequent recommendations for China and Tulare County, CA, using MAP-IT and VMOSA (Vision, Mission, Objectives, Strategy, and Action plan) planning guidelines from Healthy People 2020

**NATIONAL SCIENCE FOUNDATION-SUMMER SCHOLAR (REU)**

***Full time***, Summer 2009, California State University Fullerton

In Charge of the Study Components; Selected Pre/Posttest Research Design

Collaboratively Designed Curriculum/Online Module Based on The Theory of Constructivism, Ensured That The Module Was Relevant, And Created A Protocol For Data Collection.

Coordinated & Organized Schedules For Educational Interviews/Data Collection; Which Shed Light On Methods For Meticulous Record Keeping, Lean/Six Sigma, Organizational Structure/Coordination, Time Management & Communication Skills. Implemented A Control System During Data Analysis & Educational Interviews, To Ensure Data Was Appropriately Classified &Analyzed

Exercised My Research Methods Skills in The Project. Generated Relevant Hypotheses, Selected A Feasible Research Design. Weighed Issues with Confounding Factors & Sample Size in the Conclusion & Future Implications For Instructional Methods

Solely Performed All Statistical Analysis on SPSS (Chi-Square For Categorical Variables, Kendall’s Tau-B, Cronbach’s Alpha, Measures of*Central Tendency*) for the Entire Study

Participated in “A Prototype for Visualization of Molecular Geometry & Polarity with Embedded Dynamic Assessment” for Presentation at Gordon Research Conference

**INSTRUCTED STEM - SUBJECT CONTENT,** *Part time*, Fall 2008- Summer 2009

**The Math Lab and Learning Center,** West Los Angeles College

Calculus, Statistics, Geometry, Algebra, Chemistry and Biology

Motivated and worked with minority students (18-65+ yrs.) by devising real world examples to conceptualize/critical thinking of abstract concepts

Quickly Adapted to audience’ diverse learning/content needs, as this was a drop-in session for regular and new enrollees

Tailored each session to increase comprehension of mathematical concepts/data and tables, interpretation/ analysis, Theory of Statistics/ Statistical Sampling and Applied Statistical Analyses - t-tests/z-tests, Quantiles, ANOVA

**AT PHYSICIAN OFFICES: OPHTHALMOLOGY AND ENDOCRINOLOGY**

*Part time,* 2009 -2013

Skills Attained: Practical Aspects of Patient Management, Office Procedures, Leadership, Office Management & Operations in this Setting for Patient Care.

# PUBLICATIONS

31. **Mantravadi, S.** Pharmaceutical Expenditures, Out of Pocket Costs, and Impact of Provider Factors: Intersection of Health Economics and the Marketing Mix. *Value Health*. 2018 (1) Suppl 1.

30. **Mantravadi, S.** Effective Care Delivery of Effective Hepatitis C Virus Treatments in Medicaid Beneficiaries Without Cirrhosis. *Management in Healthcare*. 2018; 2(3):264-77

29. **Mantravadi, S.** Cost Effectiveness Analysis of Aspiration Reduction Interventions in Elderly Cancer Survivor patients in Nursing Homes. *Cancer Control: Journal of the Moffitt Cancer Center*. 2017;24(2):187-92. PMID: 28441373 *Impact Factor 3.53*

28. **Mantravadi, S.** Patterns in Liver-Related Health Outcomes with Hepatitis C Virus Treatments and Health Equity Implications for Decision Makers: A Cohort Analysis of Medicaid patients. *Health Equity Journal* *(W.K. Kellogg Foundation Grant* for open access publication.) 2017;1(1);156-164, doi: 10.1089/heq.2017.0018.

27. **Mantravadi, S.** Effective and Efficient Care Delivery for Hepatitis C Virus Treatments in Medicaid. *International Journal of Healthcare Management*. 2017:1-10, doi:10.1080/20479700.2017.1389513 *H-index 4*

26. **Mantravadi, S.** The Oncogenic Hepatitis C Virus and Direct Acting Antivirals: Economic Implications for Hepatocellular Carcinoma in Medicaid Beneficiaries with Cirrhosis. *American Journal of Managed Care*: *Evidence-Based Oncology* Special Issue. 2017;23(5):SP180-184. PMID:28665676

25. **Mantravadi, S.,** et al.Comparing Healthcare Systems of Luxembourg and the United States *Journal of Applied Business and Economics*. 2017;19(7):60-74. *H-index 5*

24. **Mantravadi, S.**, et al. Hepatitis C Direct Acting Antivirals and Disruptive Innovation. *Journal of Strategic Innovation and Sustainability*.2017;12(2):68-74. *Acceptance rate 14-20%*

23. **Mantravadi, S.**,et al. Online Teaching Overview and Misconceptions: Two Keys of Sustainability in Online Courses and Tools. *Journal of Higher Education Theory and Practice*. 2017;17(7):106-110. *H-index 3*

22. **Mantravadi, S.** Hepatitis C Direct Acting Antivirals and Disruptive Innovation. 2017 *Southwest Academy of Management Conference Proceedings*.2017;281-282.

21. **Mantravadi, S**. Teaching the Demand for Medical Care for Health Economic Students Using Board Games and The Grocery Store: Applications Towards Decision Making in The Affordable Care Act, Consumer Directed Health Plans and Managed Care Organizations. *Southwest Decision Sciences Institute* Conference Proceedings, 2017;881

20. **Mantravadi, S**. Decision Analysis and Cost Benefit Analysis: Economic Evaluation Applications with Current Health Trends in Hepatitis C Virus. *Southwest Decision Sciences Institute* Conference Proceedings, 2017;891

19. **Mantravadi, S.** Children with Pre-Existing Conditions. *Southwest Decision Sciences Institute Conference* Proceedings, 2017;911-918

18. **Mantravadi, S**. Comparing Healthcare Systems: Using the example of Luxembourg and the U.S. *Southwest Decision Sciences Institute Annual Meeting Proceedings*. 2017;621-629.

17. **Mantravadi, S**. Data Visualization and Geographic Information Systems: Spatial Patterns and Decision Making in Healthcare. *Southwest Decision Sciences Institute* Proceedings, 2017;901

16. **Mantravadi, S.**, et al. Using Geographic Information Systems to Capture Spatial. Patterns in Nursing Home Quality in the Southwestern U.S. 2017 *Association for Business Information Systems Conference Proceedings*, pg 24-32.

15. Hoyt, RE., Snider, D., Thomspson, C., & **Mantravadi, S**. IBM Watson Analytics: Automating Visualization, Descriptive and Predictive Statistics *J Medical Internet Research-Public Health Surveillance*.2016;2(2):e157 doi:  [10.2196/publichealth.5810](https://dx.doi.org/10.2196%2Fpublichealth.5810) PMCID: PMC5080525 PMID:27729304 ***Impact Factor 4.532***

14. **Mantravadi, S.** Future of Health Record Banking in Hospital Referral Regions. *American Journal of Managed Care*. 2016 Contributor. http://www.ajmc.com/contributor/s-mantravadi/2016/09/future-of-health-record-banking-in-hospital-referral-regions

13. **Mantravadi, S.** Grassroots Public Health Management in Managed Care. *American Journal of Managed Care*. 2016 Contributor.http://www.ajmc.com/contributor/s-mantravadi/2016/11/grassroots-public-health-management-in-managed-care

12. **Mantravadi, S.** Disease Management and Case Management: Key Components of Healthcare System. *American Journal of Managed Care*. 2016 Contributor. http://www.ajmc.com/contributor/s-mantravadi/2016/11/key-components-of-the-healthcare-system-disease-management-and-case-management

11. **Mantravadi, S.** Marketing Strategies for Health: Key Components of Healthcare System. *American Journal of Managed Care*. 2016 Contributor. http://www.ajmc.com/contributor/s-mantravadi/2016/11/key-components-of-the-healthcare-system-marketing-strategies-for-health

10. **Mantravadi, S.** Hello Healthy: An Obesity Prevention Model Program. *Texas Public Health Journal*. March 2015; special electronic issue:27

9. **Mantravadi, S.** Should Lap-Band Tighten Linkage with Sutter Health and Allergan, Inc? *Southwest Academy of Management Annual Conference Proceedings*.2015;5-29.

8. **Mantravadi, S.,** & Sosa-Prado, B. Violence Is Preventable (VIP) Model program: An Estimated Cost Analysis. *Texas Public Health Journal*. March 2015; Special Electronic Issue:9

7. **Mantravadi, S.,** et al. Organizational Structure: Practical Example of Time Warner Inc. in 2012. *Southwest Academy of Management Annual Conference Proceedings*. 2015;77-93.

6. **Mantravadi, S.** Arsenic in the Mainstream: A Concern in Food Safety. *Southern California Academy of Sciences Bulletin*. 2013;112(2):120

5. **Mantravadi, S**. Acrylamide: A Potential Indicator of the Obesity Epidemic. *Southern California Academy of Sciences Bulletin*. 2013;112(2):120

4. **Mantravadi, S**. Addressing Acinetobacter Infection: By Focusing on Healthcare Professionals Hand Hygiene Techniques. *Southern* *California Academy of Sciences Bulletin* 2012;111(1):77

3. **Mantravadi, S.** Malignancies in the Oro Facial Region due to Actinic Exposure. *Southern California Academy of Sciences Bulletin*. 2011;110(2):100

2. **Mantravadi, S.** Exploring the Myriad Etiologic Factors of Xerostomia. Southern *California Academy of Sciences Bulletin* 2011, 110(2): 100

1. **Mantravadi, S.** Review of Etiology, Histopathology, Immunohistochemistry and Diagnostic tools for Sjögrens Syndrome. *Southern California Academy of Sciences Bulletin*. 2010;109(2): 99

**Research Completed: Formatting for Submission in Peer Reviewed Journals**

Shanley, L., Andrade, A., and **Mantravadi, S** Translational Data Analytics for Environmental Health: Sensors, Algorithms, and Patients. A **National Science Foundation** Workshop Report, 2018.

**Mantravadi, S.** Pharmacy Providers and Market Segmentation: An Empirical Analysis of Variations in Pharmaceutical Expenditures and Out of Pocket Costs

**Mantravadi, S.** Health Care Delivery And Cancer Care Systems: A Market Perspective Of The Cancer Care Spectrum

**Mantravadi, S.** The Impact of Insurance Status on Cancer Outcomes in Kidney Cancer Patients

**Mantravadi, S.** Medication Cost Sharing in Dual Eligibles

**Books Authored**

6. **Mantravadi, S.** Hello Healthy: A Model Obesity Intervention Program

Amazon ASIN: B00EDT6R88

5. **Mantravadi, S.** Meeting Certified in Public Health (CPH) Exam Competencies: Biostatistics

Amazon ASIN: B00E441A0C, Google and Kobo

4. **Mantravadi, S.** Fundamentals of Biostatistics for Public Health Students, Google & Kobo

3. **Mantravadi, S.** Fundamentals of Statistics for College Students Google & Kobo

2. **Mantravadi, S.** Fundamentals of High School Statistics (AP Statistics)

Amazon ASIN: B00EAH0IHE & Kobo

1.Hoyt, RE., Snider, D., & **Mantravadi, S.** ***Book Chapter*:** *Introduction to Data Science*

In: Health Informatics Sixth Edition Supplement: Practical Guide for Healthcare and Information Technology Professionals ISBN: 9781365524806

# PRESENTATIONS AT PROFESSIONAL CONFERENCES

**Conducted 6 Workshops**

**18 Podium Presentations (1 Break out Session Speaker, 2 Discussant/Panel)**

**26 Posters**

49. **Mantravadi, S.** Clinical Decision Support System (CDSS) and Medical Decision Making: Cystic Fibrosis. **Podium Presenter** at 2019 *Gator Healthcare Forum: University of Florida and Florida Blue Center for Health Care Quality*, Gainesville, FL

48. **Mantravadi, S.** Engagement in Value Assessment: Hepatitis C Value (HCV) for Direct Acting Antiviral Medications. Poster at 2019 *Gator Healthcare Forum: University of Florida and Florida Blue Center for Health Care Quality*, Gainesville, FL

47. **Mantravadi, S.** Pharmaceutical Expenditures, Out of Pocket Costs, and Impact of Provider Factors: Intersection of Health Economics and the Marketing Mix.Poster presented at2018 International Society for Pharmaco-economics and Outcomes Research, Baltimore, MD.

46. **Mantravadi, S.** Overview of applications of heath economic concepts, spatial patterns, geospatial analytics, visualization/data analysis and interpretation in the context of decision science. ***Conducted Skill-Building Workshop***, at 2018 ***Gator Healthcare Forum: University of Florida and Florida Blue Center for Health Care Quality***, Gainesville, FL

45. **Mantravadi, S.** Data Visualization and Geographic Information Systems: Spatial Patterns and Decision Making in Healthcare. Analysis of Analytics in Health Care. **C*onducted Special Panel Workshop*** at 2017*Southwest Decision Sciences Institute Conference,* Little Rock, AR

44. **Mantravadi, S.** Teaching the Demand for Medical Care for Health Economic Students using Board games and the grocery store: Applications towards decision making in the Affordable Care Act, Consumer Directed Health Plans & Managed Care Organizations. ***Conducted Special Panel Workshop*** at2017 *Southwest Decision Sciences* *Institute Annual Meeting,* Little Rock, AR

43. **Mantravadi, S.** Decision analysis and cost benefit analysis: Economic Evaluation Applications with Current Health Trends in Hepatitis C virus n of Analytics in Health Care. ***Conducted Special Panel Workshop*** at 2017 *Southwest Decision Sciences Institute Annual Meeting,* Little Rock, AR

42. **Mantravadi, S.** The Explosion of Analytics in Health Care: Children with Pre-existing Conditions. ***Conducted Special Panel Workshop*** at 2017 *Southwest Decision Sciences Institute Annual Meeting,* Little Rock, AR

41. **Mantravadi, S.** Fables and Fiction of Online Teaching of Management Courses: Outsourcing Faculty to Internet Robots. ***Conducted Workshop*** at 2017 *Southwest Academy of Management - Teaching and Learning Conference,* Little Rock, AR

40. **Mantravadi, S.** Comparing Healthcare Systems: Using the example of Luxembourg & the U.S. ***Podium Presenter*** at 2017 *Southwest Decision Sciences Institute Annual Meeting,* Little Rock, AR

39. **Mantravadi, S.** Insurance Status and Pharmaceutical Pricing Constructs: An Econometric Model ***Podium Presenter*** at 2017Southwestern *Society of Economists Annual Meeting,* Little Rock, AR

38. **Mantravadi, S.** The Market Structure of Comprehensive Cancer Centers ***Podium Presenter*** at2017 Southwestern *Society of Economists Annual Meeting,* Little Rock, AR

37. **Mantravadi, S.** Affordable Care: Medication cost sharing in Dual Eligible ***Podium Presenter*** at 2017*Southwestern Society of Economists Annual Meeting,* Little Rock, AR

36. **Mantravadi, S.**, et al. Using Geographic Information Systems to Capture Spatial Patterns in Nursing Home Quality in the Southwestern United States. ***Podium Presenter*** at 2017*Association for Business Information Systems Conference*, Little Rock, AR.

35. **Mantravadi, S.** Hepatitis C Direct Acting Antivirals and Disruptive Innovation. Poster at 2017 *Southwest Academy of Management Annual Conference*, Little Rock, AR

34. Brown, Louis D\*, Adeboye, A.A., **Mantravadi, S**. et al. Promoting Engagement in Parenting Mutual Support Groups: On Evaluation of Two Strategies. Panel presentation at 2016 *Society for Preventive Research Annual Meeting*, San Francisco, CA. (presenter\*)

33. **Mantravadi, S.** Cost Analysis of a National Ebola Outbreak Prevention Training Program at U.S. Registered Hospitals. Poster at 2016 *Medical World Americas Conference & Expo*, Houston, TX

32. **Mantravadi, S.** Cost Analysis of a National Ebola Outbreak Prevention Training Program at U.S. Registered Hospitals. ***Also presented*** Poster at 2015 *Gordon Research Seminar,* Galveston, TX

31. **Mantravadi, S.** The Economics of Cancer Care and Comprehensive Cancer Centers in the U.S. Poster at 2015 *Global Academic Programs Conference*, MD Anderson Cancer Center, Houston, TX

30. **Mantravadi, S.** Should Lap-Band Tighten Linkage with Sutter Health & Allergan, Inc*?* ***Podium******Presenter*** at 2015 *Southwest Academy of Management Annual Conference*, Houston, TX

29. **Mantravadi, S.,** et al. Organizational Structure: Practical Example of Time Warner Inc. in 2012. ***Podium Presenter*** at 2015 *Southwest Academy of Management Annual Conference*, Houston, TX

28. **Mantravadi, S.** To the Desks of Subway: Submarine Strategies and Healthy Healthcare Lessons. A Management Case Study ***Discussant*** *(****Panel***) & ***Podium Presenter*** at 2015 *Southwest Academy of Management Annual Conference*, Houston, TXss

27. **Mantravadi, S.** A Model Program for Management Students: Coulombe's Sparks at Trader Joe’s**Panel Discussant** at 2015 *Southwest Case Research Association Meeting,* Houston, TX

26. **Mantravadi, S.** Using Surveillance, Epidemiology, and End Results (SEER) Data to Evaluate Number of Cancer Primary Sites in Adolescent and Young Adult. Poster at 2015 *Annual Texas Adolescent and Young Adult Oncology Conference*, MD Anderson Cancer Center, Houston, TX

25. **Mantravadi, S.,** et al. Violence Is Preventable (VIP) Model program: An Estimated Cost Analysis. ***Breakout Session Speaker & Podium Presenter*,** at 2015 *Texas Public Health Association Annual Education Conference,* Austin, TX

***Offered******Continuing Education Units*** (TX Statewide Impact Partnership Program) for

Academicians, Physiciasns, Nurses, Health Educators, Dietitians, Social Workers & Others

24. **Mantravadi, S.** Hello Healthy: An Obesity Prevention Model Program. Poster at 2015 *Texas Public Health Association Annual Education Conference,* Austin, TX

23. **Mantravadi, S.,** el. A Cost-Effectiveness Analysis of Aspiration Reduction Interventions in Nursing Homes. Poster at 2014 *Conference on Medical Issues in Cancer Patients & Survivors*,MD Anderson Cancer Center, Houston, TX

22. **Mantravadi, S.** Inpatient Healthcare Utilization and Point of Entry by Insurance Status. Poster at 2014 *Kelsey Research Foundation Health Services & Outcomes Research Conference*, Houston, TX

21. **Mantravadi, S.** An Econometric Model for Predicting Survival, Tumor Size, Presence of Other Cancers, and Cause of Death, in Patients with a Primary Diagnosis of Kidney and Pelvic Cancer. Poster at 2014 *Urologic Oncology Conference,* MD Anderson Cancer Center, Houston, TX

20. **Mantravadi, S.** Arsenic in the Mainstream: A Concern in Food Safety. Poster at 2013

*Southern California Academy of Sciences Annual Meeting*, Long Beach, CA

19. **Mantravadi, S**. Acrylamide: A Potential Indicator of the Obesity Epidemic. Poster at 2013

*Southern California Academy of Sciences Annual Meeting*, Long Beach, CA

18. **Mantravadi, S.** Health Disparities/Inequities in African Americans. Poster at 2012 *American Public Health Association Annual Meeting and Exposition*, San Francisco, CA

17. **Mantravadi, S.** Increase Awareness of Need for Vision Care. Poster at 2012 *American Public Health Association Annual Meeting and Exposition,* San Francisco,CA

16. **Mantravadi, S.** An Initial Program Design Addressing Water Contamination Issues in California. Poster at 2012 *National Environmental Health Association Annual Educational Conference and Exhibition*, San Diego, CA

15. **Mantravadi, S.** Practice of Food Safety: Healthy Eating. Poster at 2012 *National Environmental Health Association Annual Educational Conference & Exhibition*, San Diego, CA

14. **Mantravadi, S.,** et al. Has Our Love Affair with Plastic Gone Too Long? The Relationship between BPA in Plastic and Demographic Factors ***Podium Presenter*** at 2012

*Southern California Academy of Sciences* *Annual Meeting*, Eagle Rock, CA

13. **Mantravadi, S**. Addressing Acinetobacter Infection: By Focusing on Healthcare Professionals Hand Hygiene Techniques. Poster at 2012 *Southern California Academy of Sciences Annual Meeting* Eagle Rock, CA

**Abstract published** in *Southern* *California Academy of Sciences Bulletin*. 2012, 111(1):77

12. **Mantravadi, S.,** & Babbie, E. Food Insecurity. Poster at 2012 *Pacific Sociological Association Annual Meeting*, San Diego, CA

11. **Mantravadi, S.** Hunger, A Public Health ‘Hot’ Topic: The Starve Hunger Out – China (SHOC) Model Program. ***Podium Presenter*** at 2012 *California State University Social Science Research and Instructional Council Annual Student Research Conference,* Los Angeles, CA

10. **Mantravadi, S.,** et al. Healthy Eating Strategies to Combat Youth Obesity. Poster at 2011 B*iennial Childhood Obesity Conference*, San Diego, CA

9. **Mantravadi, S.** Malignancies in the Oro Facial Region due to Actinic Exposure. ***Podium Presenter*** at 2011 *Southern California Academy of Sciences Annual Meeting*, Pomona, CA

8. **Mantravadi, S.** Exploring the Myriad Etiologic Factors of Xerostomia. Poster at 2011

*Southern California Academy of Sciences Annual Meeting*, Pomona, CA

7. **Mantravadi, S.** Revisiting the Issue of Fluoride Usage as an Anticariogenic Agent: A Review **Podium presenter** at 2011 *Annual California State University Dominguez Hills Student Research Day*, Carson, CA

6. **Mantravadi, S.,** et al. Salient Features of Health Care Reform with Reference to Latino Population poster at 2011 *Latino Medical Student Association National Conference*, Irvine, CA

5. **Mantravadi, S.** Review of Etiology, Histopathology, Immunohistochemistry, and Diagnostic tools for Sjögrens Syndrome. Poster at 2010 *Southern California Academy of Sciences Annual Meeting* Los Angeles, CA.

4. **Mantravadi, S**., et al. Visualizing Molecular Geometry & Polarity with Interactive learning as an Assessment Tool **Podium presenter** at 2010 *American Chemical Society Southern California Undergraduate Research Conference in Chemistry & Biochemistry*, Orange, CA

3. **Mantravadi S.**, et al. Interactive Learning and Assessment Tool for Visualizing Molecular Geometry and Polarity. Poster at 2010 *American Chemical Society National Meeting & Exposition*, San Francisco, CA

2. **Mantravadi, S.** Visualizing Molecular Geometry and Polarity with Interactive Learning as an Assessment Tool **Podium presenter** at 2010 *Annual California State University Honors Conference*, Carson, CA

1. **Mantravadi S.**, et al. Interactive Learning and Assessment Tool for Visualizing Molecular Geometry and Polarity **Podium presenter** at 2009 *Southern California Conference for Undergraduate Research*, Carson, CA

# OTHER RESEARCH/MODEL PROJECTS (Not Published)

**Healthcare related**

**Individual Projects**

Disney and Hasbro: Strategies and Healthy Healthcare Lessons

Cost Analysis of Splenic Sequestration in Patients with Sickle Cell Anemia Using MEPS Data.

The SWOT and Marketing Analysis (4 Ps) of HMO Products

Exploring Information Sources for Customer Satisfaction

Examining Avenues for Control Systems, before and after Program Implementation

Framework of Payer Sources and Streams such as Medicare, Medicaid, Private Insurance, Fee for Service, Capitation **…**

Overview of Pay for Performance Practices

Model DMAIC Six Sigma Program for Pain Management & Patient Satisfaction

Model DMAIC Six Sigma Program for Outpatient CTScan

The CM vs. DM: Comparing and Contrasting Case Management and Disease Management

Medicare and Medicaid Managed Care: Practical example of LA County

A Review of Employee and Organizational Interest in Unions & Related Labor Practices

The Fed-Ex Vs. UPS: The Railroad Labor Act Vs the Federal Aviation Act

The Budget Analysis for a Student Health Center

The BCG Analysis of City of Hope Product Line

Marketing Strategies in HealthCare Companies Such as Kaiser, Humana

Analysis of Marketing Strategies in Primary Medical Groups

The GE Centricity PACS-IW: A Picture Archiving and Communications Software Systems

Building a Health Record Bank (HRB): Health Transactions for Financial Savings in the LA Metropolitan Area (LAMA)

County Cleanliness and Chaos: Harbor-UCLA in the Middle of Medicare Regulations

**Team Projects**

Cost Effectiveness Analysis of Member Engagement in Community Coalitions

Cost Effectiveness Analysis of Attendance in Parent Mutual Support Groups

Measles Vaccination Policies for Texas schoolchildren

Urinary Incontinence Interventions: Medication vs. Pelvic Floor Exercises (Comparative Effectiveness Research)

A Decision-Making Process: Kaiser Permanente Foundation Hospital Downey & the New California Seismic code

Does WellPoint’s Disease Management Program have an Effect on Their Business Strategy & Financial Health?

Pfizer Inc. (PFE): Loss of Lipitor. How will Generic Erosion Affect the Market Share of Pfizer’s Premier drug Lipitor?

Mock Budget Hearing for Medical Equipment in A Long-Term Care Facility

Healthcare Financing Discussion: Veterans Administration, Indemnity & Others

The Implications of Meaningful Use: HIPPA Privacy & Security Rule and HITECH

Diabetes & Obesity Model Mobile Application (App)

Chronic Disease Management & Telehealth/Telemedicine

**Public Health-related**

**Individual Projects**

Impact of Patient Protection and Affordable Care Act (PPACA) on Children with Pre-Existing Conditions

Good Eating: Food Safety Practices

Kids Aren’t Pests: The Effects of Pesticides on Children in the United States.

Critique on Smoking Characteristics of Adults with Selected Lifetime Mental Illness: Results from the 2007 National Health Interview Survey

Photo voice: Socioeconomic Factors Contributing to Food Shopping Practices in Food Stamps/SNAP

Community Visit/Interview Assignment of the Young Men’s Christian Association (YMCA) – Curriculum Development & Health Education

The Young Men’s Christian Association (YMCA): Using Dance as a Social Support System

Adult Health and Media Survey – Social & Behavioral Sciences

**Team Projects**

Violence is Preventable (VIP): A Model NIH Grant Proposal

Obesity in Latino Youths: The Eat Good, Play Hard Program

Distribution of Lead Poisoning in Children in the United States

How to Advocate for Health Reform

Financing & Interflow of the Health Care System

**Health/Science-related**

**Individual Projects**

A Model NIH Grant **-** Study of Concurrent Occurrence of Tumor Angiogenesis in Pleomorphic Adenoma &Carcinoma Ex-Pleomorphic Adenoma of Salivary Glands

Genetics of Osteogenesis Imperfecta & Neurofibromatosis

The Relationship between Cell Cycle and Apoptosis, Cytoskeleton, and Others

Fraction of Total Count in Each Stage of Mitosis in Plant (Allium) and Animal (Fish) Cells and Theoretical Comparison of Cellular Divisions

Laboratory **-** Gel Electrophoresis, Polygenetic Fingerprint, Polymerase chain reaction (PCR), Lac Z Gene Trap Expression in Drosophila, and Others

**Team/Collaborative Project**

Buds Grow from STEM: Southern California Fifth Grade to Middle School Students benefit from Science and Math Program. ***Grant Proposal*** *submitted* to Southern California Academy of Sciences.

Common Fixatives used in the Preservation of Biological Tissues. Accepted for poster presentation at American Chemical Society Meeting, Boston, MA 2010

Common Antibiotics Used in the Treatment of Gram Negative Infectious Diseases, Accepted for poster presentation at Medicinal Chemistry Division, American Chemical Society Meeting, Boston, MA 2010,

Papilloma Virus – A Case Study of a Wart on Index Finger

# INVITED PRESENTATIONS, HONORS AND AWARDS

**Guest Speaker**

University of Jacksonville, FL: Using GIS to Capture Spatial Patterns in Nursing Home Quality

University of Central Florida: Areas of Research Interests - Nursing Homes (aspiration),

Hepatitis C Virus: Background in Online and Hybrid Teaching

California State University Sacramento

Connect the POLCa Dots in Health: Planning & Decision Making

Covenant Health Care, Pensacola, FL: Quantitative Analysis

Sacred Heart Hospital, Pensacola, FL: Predictive Analytics

University of West Florida: Hepatitis C Virus & Direct Acting Antivirals System

Impact on Healthcare Delivery Now & in Future

West Chester University, PA: Affordable Care Act and the New Reimbursement

California State University Chico: Decision Making in Healthcare

Discussed Collaborative Project Proposal: Dr. Fielding, Director LA County Dept. of Public Health, Founder Fielding School of Public Health, Center for Health Advancement

**Breakout Session Speaker**: Texas Public Health Association Annual Education Conference

**Keynote Speaker**

Pre-Graduation Ceremony, Hawthorne High School, CA

High School Graduation Ceremony, California Virtual Academies

**Invited Speaker** LA County & LA City Libraries, CA

**Honors and Awards**

**Nominee/Candidate**

Oral Health Florida, Board of Director

National Board of Public Health Examiners (NBPHE) Certified in Public Health Item Writer

National Commission for Health Education Credentialing, Inc. (NCHES) Director Division Board for Professional Development

HIPPA Summitt 2019, Conference Scholarship

Southern Data Science Conference 2018 – Home Depot Conference Award

**CVS** Travel Award 2018: Enterprise Evaluation & Population Health Analytics team, RI

North American Business Press, Grant for publication

**Florida Blue**

Guiding Stars Recognition for ‘Going the Extra Mile’

Discretionary Performance Excellence Recognition

**National Science Foundation** (**NSF**)

South Big Data Innovation Hub, Conference/Travel Awards

Chemistry Leadership Group Travel Award

Research Experience Undergraduate Scholar

**University of West Florida**

Recognized Faculty (Twice), Academic Technology Center

Quality Matters (QM) Fundamental Certificates for Courses Designed & Developed

Graduate and Undergraduate Health Economics Courses

Undergraduate Health Economics Course Listed in QM National Database of Certified Course -

Certification for Designing and Developing Course, 100% score

College of Health Representative - At Large, Committee on Assessment of Student Learning

Research Allocation Committee Travel Fund Award for Workshop Presentation

Conference Funds (Twice)

New Faculty Startup fund

**University of Texas Health Science Center**

Delta Omega Honorary Society in Public Health

Travel Award, Quantitative Methods of Social Research, Chapel Hill, NC

Conference Presentation Funds (Twice), M.D. Anderson Cancer Center, Houston, TX

Emerson Award Nominee, Outstanding Teaching Assistant

Outstanding New Doctoral Student Scholarship

Ford Foundation and National Research Council of the National Academies

Ford FoundationFellowship, Honorable Mention

Alternate Pre-Doctoral Fellow List

Gordon Research Seminar on Tropical Infectious Diseases, Scholarship 2015

Kelsey Research Foundation Annual HealthServices & Outcomes ResearchConference fund 2015

Completed Management Fellow, Part II Exam, County of Los Angeles, CA 2013

Master of Science in Health Care Management, Travel Award 2012

Certified Health Education Specialist, 2013 to current

National Commission for Health Education Credentialing

Certified in Public Health (CPH), 2013 to current

National Board of Public Health Examinerss

Bachelor Degree

Honor Society of Phi Kappa Phi

Phi Sigma Biological Honors Society

Healthcare Information and Management Systems Society (HIMSS) 2015

Conference Reviewer Appreciation and Professional Commitment Award (Twice)

**Houston Chapter, Scholarship**

Southwest Academy of Management 2015

Conference Reviewer Appreciation Award

Doctoral Consortium Scholarship

Southern Finance Association, Conference Fund

Association of Business Information Systems, Conference Reviewer Appreciation Award

# SERVICE TO RESEARCH AND CONFERENCES

**National Science Foundation -South Big Data Innovation Hub**

Member

Environment and Hazards Cluster

Women in Data Science

Health Cluster Activites

**Track Chair, Special Panels**, 2019, 2018

Southwest Decision Sciences Institute

**Session Chair**, 2017

Association for Business Information Systems - Information Systems in Healthcare and Government

Southwestern Society of Economists - Industry Studies and Firm Performance I

**Session Co-Chair**, 2017

Southwest Decision Sciences Institute - Healthcare and Economics

**Discussant**, 2017

Southwestern Society of Economists

Industry Studies and Firm Performance ***I******AND II***

Applied Economic Issues II

Southwest Academy of Management

Human Resources /Career: Changes in HR Management - Recruiting & Selection, 2017

Lesson Learned from Health Care Industry, 2015

Southern Finance Association, 2016

Idiosyncratic Volatility and Firm-Specific News: Beyond Limited Arbitrage

The Stock Market’s Reaction to Macroeconomic News under Ambiguity

**Voted on**

Healthcare Information and Management Systems Society, 2017

Annual Conference Brochure Administrative Procedure

Association for Business Communication Southwestern United States/Federation of Business Disciplines Conference Proposals, 2016

American Public Health Association, 2015

Public Health Material Contest for Global Public Health Film Festival

Public Health Education Health Promotion **Materials Contest**

**Associate Editor**, 2016

Southwest Case Research Association Conference Proceedings

**Oral Health Florida Action Team Member**, 2016 - Present

Data Action Team

Medical-Dental Action Team

Sealant Action Team

Senior Oral Health Action Team

# RESEARCH/PROFESSIONAL DEVELOPMENT

**Workshops Attended**

Agile Real World Training, 2019, Florida Blue, Jacksonville, FL

Data Mining and Predictive Analytics. 2018 MicroStrategy, Orlando, FL.

Risk Assessment. 2018 Revenue Program Management, Florida Blue, Jacksonville, FL

Use of Propensity Scores in Observational Studies of Treatment Effects. 2018 International Society for Pharmaco-economics and Outcomes Research (ISPOR), Baltimore, Maryland,

Budget Impact Analysis II – Applications and Design Issues. 2018 ISPOR, Baltimore, MD

High Impact Application of Data Science in Precision Medicine, Health Analytics and Health Disparities. 2016 The South Big Data Innovation Hub: Georgia Institute of Technology, Atlanta, GA

Analyzing Social Networks. 2015 Interuniversity Consortium for Political & Social Research, Chapel Hill, NC

**Conferences Attended**

Southern Data Science Conference, 2018, Orlando, FL

[Data Science Summit: Smart Cities of the Future](https://www.southerndatascience.com/workshops-01): South Big Data Innovation Hub, 2018, Orlando, FL

Annual Blues United for Innovation (***BUI***) Roundtables Conference, Nov 2018, 2017, Jacksonville, FL

QUALIPALOOZA -The 2nd Annual RISE Quality Leadership Summit**,** Designed to Boost Performance on Star Ratings, HEDIS, CAHPS and HOS, 2017, San Antonio, TX

Explored ***GuideWell Innovation Center*** with Florida Blue Analytic Group, 2017, Lake Nona, Fl

American College of Healthcare Executives, North Florida Chapter: Panhandle Educational Program, 2016, Pensacola, FL

Florida Center for Nursing, Florida Action Coalition and Florida Blue Foundation, 2016, Pensacola, FL

National Health Care Reform: The Anniversary Edition , 2015. The Baker Institute and the Center for Health & Biosciences, Houston, TX

Invited to Attend, The Earl Babbie Research CenterInaugural Conference, 2012Chapman University

Orange, CA