

Mary Grace Crissey

SAS programmer, Data Scientist, Military Vet

Organizations

American Statistical Association (COTS)

San Antonio Chapter Member

November 2014 to Present

April 2016 my project on Predictive Coding was featured as a Poster in our local chapter COTS conference.

Dec 2015 I spoke at UTSA on the challenges of consulting and applying analytics.

Jan 2015 attended and very much enjoyed the ASA traveling short course in Texas

taught by Dr Rodney Sturdivant on Logistic Regression.

Innersource Donna Eden

Certified Energy Medicine Practitioner

August 2010 to Present

INFORMS www.informs.org

CPMS officer (secretary, Edelman Judge)

January 2000 to Present

Summary

Please note: I have a perfect job and am NOT accepting requests to "Link In" from recruiters as I am not willing to entertain different job prospects.

Analytic Focus keeps me busy with a variety of clients needing advanced analytic support. My background in Operations Research is applied as I find and interpret data to provide insight for preparation of expert testimony for litigation cases. Driven to make impacts, my statistical data scientist and automation programming skills continue to be in demand- as I strive to balance my life following the Holy Spirit as a vibrant Roman Catholic Christian.

Now that I have found my perfect fit with Analytic Focus, I am not entertaining other job prospects.

As a USAF military officer my contributions impacted R&D labs, simulation and forecasting, policy decision support (Pentagon), Contracting program management, public speaking, and one of my favorite assignments as Assistant Professorship at the U of WA, Seattle.

My resume includes projects in Workforce planning, retention, forecasting, statistics, simulation, optimization and spreadsheets. Industries include Credit and Risk (banking) , Manpower and training (scheduling), Customer Relationship Management (Retail /Telecom) allocation of resources (money, materials, equipment, and people).

As a passionate advocate of data driven decision making, I enjoy exploring data for trends as well as promoting success projects of those who have applied innovative analytics.

Interests

Consulting for applied analytics, SAS implementations , Management Science and Optimization, textual concept analysis, data ViZ, problem solving with pictures,
Healthly living - spirit led , energy medicine, dance

Education

University of Maryland College Park

Masters of Science, Management Science - Operations Research, 1986 - 1988

University of Washington

B. S, Math

Activities and Societies: AFROTC Det 910 , Dance Department (Ballet and Modern) , Bellevue Community College Dance Company

JourneyDance TM with Toni Bergins

JourneyDance Facilitator, Parks, Recreation, Leisure, and Fitness Studies, 2011 - 2012

Activities and Societies: Movement as exercise as healing. Inner Physician "knows" how to nurture and correct for lifes stresses. connect with music and community.

Experience

Senior Statistical Analyst at Analytic Focus LLC

April 2014 - Present (2 years 3 months)

Analytic Focus LLC is a consulting firm that performs litigation support and expert witness services. Some of our work focuses on measurement of risk for financial intermediaries. The final area of our practice is in support of Federal and State agencies needing economic and financial analysis to pursue their missions.

With a team of highly qualified economists, statisticians and financial and system analysts , we are focused on providing and developing custom solutions for our clients across the country.

Sr Research Operations Research Consultant at Clarity Solution Group

April 2013 - January 2014 (10 months)

As a senior Operations Research Analyst , I generated SAS programs by writing new data integration code to implement a Leads Generation Tracking tool for our client with "big" data as a large insurance agency.

The statistical models I created allowed our client to make more informed business decisions. This is a very hands-on position requiring big data manipulation and statistical modeling . Clarity Solution Group is a data and analytics consulting firm delivering enterprise-class, full life-cycle solutions from strategy through

implementation. We specialize in big data, closed-loop analytics and customer intelligence, providing deeper insight and measurable results.

SAS software developer at Pearson Assessments

January 2011 - April 2013 (2 years 4 months)

Support the collective Assessment & Information Quality organization of educational testing within Pearson. Performs systems analysis on proposed and existing systems, estimates of level of effort, documents subsystem design, develops programming specifications, coding of complex algorithms, unit testing of software systems, and researches new technologies. Work closely with AIQ management to deliver system components with high quality, within budget, and per schedule. Provides accurate estimates and plan both technical and financial aspects of software development projects. Interacts regularly with internal and external customers. Conducts root cause analysis to determine preventative solutions. Identifies inefficiencies, recommends solutions, and gain support for efficient and effective resolutions.

Operations Research Analyst Society Member at INFORMS

January 1988 - March 2011 (23 years 3 months)

Active volunteer who gives talks, judges papers, organize conference sessions and mentors new PhD's. I have served in dozens of officer leadership roles and regularly interact with fellow professionals across the globe. These two professional societies -- Institute of Industrial Engineers and the Institute of Operations Research and Management Society - are ones I have been affiliated with the longest.

Product Marketing manager at SAS

November 2002 - August 2010 (7 years 10 months)

For this \$2 Billion business analytics company, I supported customers, R&D, employees, consultants, press and media and industry experts across the globe by promoting and sharing analytics and optimization solutions including SAS/OR, SAS/STAT, SAS Enterprise Miner and text analytics.

Scientific Analyst Military Officer at UNITED STATES AIR FORCE

March 1982 - August 2002 (20 years 6 months)

Mathematical sciences, project management, contracting official, Government laboratory R&D systems engineer, technical report author, pentagon policy analyst, supercomputer consulting, ROTC instructor, air command and staff college graduate.

Workforce Planning & Analytics Supervisor at AF Personnel Center

June 1996 - June 2002 (6 years 1 month)

Force Management planning, military and civilian career retention analysis, SAS programming and optimization of job rotation alternatives and promotion planning.

Associate Professor, Aerospace Studies Department at University of Washington

June 1992 - May 1996 (4 years)

Faculty Senate member, Taught business writing and communication classes, Physical fitness mentor and leadership laboratory officer, Recruiting officer, Interviewed prospective scholarship students, commandant of Cadets, business and management instructor, publicity coordinator

Personnel Policy Analyst at Pentagon

January 1988 - January 1992 (4 years 1 month)

Impacted national military policy by briefing and interacting with key decision makers regarding improvements organizational changes to the management of USAF active duty members (over 800,00 individuals) . Frequent executive staff summary sheets and budget analysis presentations ensured the hiring, recruiting, promotion and retention of military employees to ensuring cost reduction and workforce performance constraints were optimized. Forecasting of retention rates - and forecasting of economic influences played a large part of simulating the various outcomes of proposed human resource allocation optimization tasks accomplished in this role. As a senior analyst, project management duties included reviewing and monitoring Dod contractors performance on research technical reports and investigations.

Graduate Student at University of Maryland

January 1986 - January 1988 (2 years 1 month)

At College Park campus, I was on an AFIT scholarship under Dr Bruce Golden and Dr Saul Gass earning my MS focusing on Applied Math, Industrial Engineering, optimization and simulation coursework in their Business School.

System Engineer at AF Weapons Laboratory

January 1982 - January 1986 (4 years 1 month)

Mainframe programmer, probability mathematician for the Structural engineering group of civil engineers. Project management , contractual technical reviewer, wrote statement of work and reviewed final reports.

Publications

Decision Dilemma: Head to the OR

Computer world August 2004

Authors: Mary Grace Crissey

Many people have never heard of operations research (OR), yet virtually everyone is affected by it in some way. OR has been one of the analytics industry's best-kept secrets.

Five Steps to Resource Optimization: Any process can be improved, but it takes alignment to get it optimized

Strategy Driven December 15, 2010

Authors: Mary Grace Crissey, Becca Goren, Ed Hughes

How do you optimize resources in poorly defined decision-making environments – or in cases where scenarios are well-defined or ineffective? Effective resource optimization requires a certain rigor, consistency and agreement on processes.

Enterprise-Applications/How-to-Use-Voice-Mining-to-Tune-in-to-the-Voice-of-the-Customer/

E Week May 18, 2009

Authors: Mary Grace Crissey

Text Analytics will help identify sentiment and major customer concerns. Combine it with data mining to gain even more value!

What BI Practitioners Can Learn from Operation Researchers

Information Week May 5, 2008

Authors: Mary Grace Crissey, Seth Grimes

Growing interest in analytics and the trend toward automated decision making will lead the business intelligence crowd toward the mix of mathematical and statistical techniques used by operations researchers.

Shhh...It's a Secret

SAS Magazine November 2, 2004

Authors: Mary Grace Crissey

Most people have never heard of operations research (OR), yet it affects virtually everyone in some way. OR acts much like an invisible agent, simplifying incredibly complex situations and presenting the best alternatives for any decision maker to choose from.

Five Steps to Resource Optimization

sascom magazine September 2008

Authors: Mary Grace Crissey, Becca Goren, Ed Hughes

Any process can be improved, but it takes alignment to get it optimized

Aligned Resource Optimization

SAS Institute March 2008

Authors: Mary Grace Crissey, Becca Goren, Ed Hughes

How to optimally allocate resources in alignment with enterprise-level objectives

This white paper provides five steps to resource optimization, with a visual model and a variety of real-world examples to help business leaders understand how to allocate resources in alignment with enterprise-level objectives. You'll also learn about the technology required to support resource optimization.

Certifications

Inbound Certification

HubSpot August 2015 to September 2016

Volunteer Experience

Health Coach at Beyond Organic Foundation

January 2009 - Present

Promoting nutrition education and assisting others in living vibrant abundant lives with access to farm grown Natural Food products. Delicious organic chocolate opened the door to improved health for me so I have voluntarily stepped out as a leader in this field. For our local (and web based) community, I give talks and

share tips on how to eat and live naturally with farm based local food. Profits earned are donated to needy kids through the "Get a meal - Give a meal" campaign. www.grace.mybeyondorganic.com

Pregnancy Center IT specialist and Mentor at A Woman's Haven

February 2012 - Present

A Woman's Haven is a non profit community agency serving woman facing unplanned pregnancies. They currently operate from paper based tracking systems consisting primarily of daily logs handwritten notes of phone calls and file drawers with binders flagged by colored tabs. I volunteered to automate their data system by moving them from 100% pen and paper based data collection to an electronic computerized database record system .

Now their front desk clerks can input new client records quickly and accurately. The director of operations performs annual (and if time allows monthly) reviews of basic activities such as number of clients seen and types of resources provided. With the new performance tracking system we can quickly generate metrics and interactively query the system to customize reports as desired..

Skills & Expertise

Analytics

SAS

Data Analysis

Operations Research

Statistics

Data Mining

Predictive Analytics

SAS programming

Business Intelligence

Optimizations

Strategy

Analysis

Statistical Modeling

Thought Leadership

Military Experience

Software Quality Assurance

Leadership

Supervisory Experience

Public Speaking

Mathematical Modeling

Program Management

Business Analytics

Microsoft Excel

Big Data

Modeling

Forecasting
Project Planning
Project Management
Product Marketing
Management
Predictive Modeling
Management Consulting
Consulting
Quantitative Analytics
Segmentation
CRM
People Analytics
Workforce Analytics
Process Improvement
management science
Demographics
Benchmarking
Workforce Planning
Global Strategy
workforce metrics
sas enterprise guide
Retention Strategies
Headcount Reporting
Interpreting Data
sas management console

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8 people have recommended Mary Grace

"I hired Mary Grace to work on one of our strategic accounts in a Senior Data Analyst/Modeling role. Mary Grace was one of the few that had a solid background in SAS, which was the tool our client was using. She is extremely personable and easy to work with."

— **Sharon Hankins**, worked with Mary Grace at Clarity Solution Group

"Mary Grace is a talented SAS developer with excellent organizational and communication skills. She has tackled complex programming requirements and successfully delivered code that was well-written with critical documentation included. It was truly a pleasure to work with her during our time together at Pearson and I learned so much while she was here. I highly recommend Mary Grace Crissey!"

— **Rebecca McCully**, worked directly with Mary Grace at Pearson Assessments

"Mary and I have worked for the best boss in the world - just decades apart. I often network with Mary at the national INFORMS professional conferences - and I enjoyed "hanging" out around her SAS booth in Wash DC -- to learn the latest that SAS had to offer to their consulting partners and to share my ideas for advancing the art of Analytics. She is a motivated optimization analyst who is eager to show how data driven analysis can lead to better decisions! I always look forward to my next chance to interact with her."

— **Martin Ellingsworth**, was with another company when working with Mary Grace at INFORMS

"As the President of the INFORMS Dallas Fort Worth Chapter, I had the opportunity to invite Mary Crissey to present at our monthly meeting. Attendees to these meetings are analytical professionals with a strong quantitative background and interested on applying that background on business situations, who work as analysts, developers, managers or professors. Mary Crissey did an excellent presentation on "Applying OR in Brazil to Solve Real World Challenges with OPTMODEL from SAS." Her friendly and professional style facilitated a discussion on how to promote Operations Research within our business community, and how to strengthen our Informs Chapter. Chapter members responded to her by engaging in the topic avidly."

— **Patricia Neri**, was with another company when working with Mary Grace at SAS

"I've known Mary Grace for seven years through our work at SAS promoting its great predictive analytics products, cool partners and amazing customers. Everyone in my PR team who has worked with Mary

Grace can attest to her skills and enthusiasm speaking, writing, and managing programs. Her commitment to organizational success is especially evident in her contributions during meetings and events where her positive energy is infectious. ."

— **Faye Merrideth**, worked with Mary Grace at SAS

"I like to say that if you have a great boss, important work, and great co-workers, you were blessed. As a first assignment in the Air Force, I was blessed to work for Mary because she had a direct impact on all three of those important factors. She made sure our analysis hit on the central issues the leadership needed, that there was great collaboration across the organization, and that it was fun to work there!"

— **Joseph Morgan**, reported to Mary Grace at AF Personnel Center

"Mary Grace and I worked together as Air Force Enlisted Personnel Policy Analysts at the Air Staff. Mary Grace was a fast learner and excellent analyst. She quickly became a SAS expert as we ran, maintained and improved our primary enlisted force modeling system to accomplish a major study of how to keep enlisted promotions from stagnating as the force drew down from nearly 500,000 to less than 325,000 in five years. Her excellent work and work ethic was a reflection of the depth of her character. She has my highest recommendation."

— **Mike Arnett**, managed Mary Grace indirectly at Pentagon

"Mary and I brainstormed mathematical and computer science ideas while we were Operations Research Officers in the Pentagon (late 1980s). Our individual and collective work affected enlisted personnel throughout the Air Force and we strove mightily to do the right thing in a difficult environment. My trust was invested in her and moreover, her insights (into human behavior and mathematical modeling) were spot on. Aside from technical issues, Mary was keenly concerned with creating a positive work environment in which excellence was both discussed AND practiced. In good times and in bad, Mary was there in the trenches with one eye on the immediate work and the other eye on the Big Picture."

— **Bruce Colletti**, worked directly with Mary Grace at Pentagon

[Contact Mary Grace on LinkedIn](#)