Christopher Teixeira

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As a lead data scientist, I support various projects by helping sponsors design solutions to improve their decision making capabilities. Demonstrated ability to execute a project from the design phase through execution and delivery. Areas of expertise include:

- ❏ Data Visualization
- ❏ Applied Statistics
- ❏ Data Analysis
- ❏ Discrete Event Simulation
- ❏ Predictive Analytics
- ❏ Operations Research
- ❏ Agent-based Modeling
- ❏ System Dynamics
- ❏ Risk and Decision Analysis

Experience

The MITRE Corporation, Bedford, MA
Serves in many roles from individual contributor to technical lead and integrator to supervisor. Exhibits expertise in a multitude of areas including technical solutions, communication skills, creativity, and vision to deliver a diverse set of technical solutions across different FFRDCs. Scopes statements of work, advises on technical approaches for research projects, and supports my group in developing their technical skills.

Epsilon, Wakefield, MA
Lead small teams to perform various statistical and data analysis studies using a combination of SAS, Netezza, Tableau, R, and Python. Assisted in business development activities, including writing proposals and initial scoping of projects with clients. Work closely with remote clients to understand their needs and translate into tasking for team members. Provide division wide support as an integer optimization expert.

IBM, Herndon, VA
Work on site with clients, collaborating with other contractors on data analysis projects using SAS products. Support business development activities for federal and private clients and work with contracts to submit proposals. Collaborate with IBM research to update and translate algorithms into useable products for healthcare sponsor.

SAIC, McLean, VA
Contribute to multiple projects using my knowledge of mathematics, statistics, and operations research. Lead a small team of interns to develop their skills in programming and operations research.

Awards

- ❖ Spot Award (MITRE) x2
- ❖ You Made it Happen (Epsilon) x4
- ❖ NASA Systems Engineering Award (SAIC)

Skills

- ❖ SAS
- ❖ R / RStudio
- ❖ Python
- ❖ SQL
- ❖ Tableau
- ❖ AnyLogic
- ❖ VBA
- ❖ JavaScript
- ❖ Sim.JS
- ❖ Netezza
- ❖ Postgres
- ❖ D3

Education

George Mason University
Master of Science, Operations Research
Concentration in Decision Analysis

Worcester Polytechnic Institute
Bachelor of Science, Mathematics
Coursework in Applied Statistics

Project Highlights

Department of Energy Cost and Schedule Tool – Individual Contributor, MITRE
Developed a discrete event simulation model capable of performing life cycle cost and schedule analysis. This model supports executives that make decisions on alternative strategies which are expected to cost on the order of tens of billions of dollars. Recognized for contribution with internal award.

Strategic Workforce Planning – Technical Lead, MITRE
Working with senior leadership, I gather and determine staffing event rates to utilize inside an Agent-based Model that forecasts out staffing capacities and visualize strategy tradeoffs inside Tableau.

Children at Risk – Project Lead, MITRE
Lead a small team to develop features across multiple human services divisions to determine systemic risks for children fatalities. Worked with sponsor to establish a data use agreement and secure environment.

Predictive Analytics in Child Welfare – Project Lead, MITRE
Work with sponsor to publish two papers on the state of predictive analytics in child welfare and a guide for child welfare administrators to understand when to use predictive analytics. Lead a small team representing five government agencies to analyze factors of foster care children who lead healthy, independent lives.

VBA Command Center – Technical Integrator, MITRE
Coordinate efforts and approaches between teams to optimize approaches. Advise on the use of data for inputs into a discrete event simulation and the model out visualization.

Customer Attrition Analysis – Task Lead, Epsilon
Worked with team members to build a Bayesian Belief Network (BBN) on large data sources in Netezza to predict the likelihood of a person closing an account with our client. I compared the BBN model results against Logistic Regression to determine best modeling approach.

Probabilistic Campaign Manifest Analysis Tool – Individual Contributor, SAIC
Updated and expanded the capabilities of this simulation tool to track new metrics and increase the number of Bernoulli trials run within the course of a campaign. Effort on this work was acknowledged in the "SEEKING A HUMAN SPACEFLIGHT PROGRAM WORTHY OF A GREAT NATION" report to Congress.

Transit Risk and Assessment Methodology – Cost Benefit Analysis Lead, SAIC
Served as the data manager for analysis of counter-terrorism defense measures in place for several mass transit systems under the Transit Risk Assessment Module. Performed cost-benefit analysis for several jurisdictions using the Risk Management Tool. Aided as the CBA specialist during the TRAM workshops.

Port Operations Analysis for PNNL – Lead Modeler, SAIC
Using AnyLogic to build a combined Discrete Event / Agent Based model to determine the effects of introducing delays to a seaport's operations. Build reports given the results of a sensitivity analysis or Monte Carlo run version of the model. Compiled an applet version of the model and combined with an HTML interface to supply to the customer.