C. Bray Ellison

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Technical Skills

# Overview

An experienced analyst focusing on operations research, data analytics, statistics, and machine learning. Skilled at taking data, transforming it into business insights, and presenting it to all levels of leadership. Creating automation solutions to drive operational efficiency.

# Programming

Python, SAS, VBA, R, JMP, Matlab

REST, SOAP, JSON

Selenium, pywin32

SQL Server, PostgreSQL, SQLite

Git, Azure DevOps, GitHub Markdown, LATEX

# Software

Excel, Word, Outlook, PowerPoint, SharePoint QNXT, Trapeze

Education

**MS, Mathematics**

Portland State University

2010 - 2012 | Portland, OR

Focus: Numerical Analysis, Mathematical Analysis, Differential Equations, Graph Theory

Research Paper: *“Numerical methods for ordinary differential equations and their implementation in MATLAB”*

**BA, Economics**

Minor: Mathematics Focus: Development, Mathematical Economics, Econometrics, Statistics Portland State university

2008 - 2010 | Portland, OR

# Experience

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| May 2017 - | **Operations Analyst 3** [Virginia Premier](https://www.virginiapremier.com/) |
| Present | * Automated the entry of health risk assessments clearing out a fourmonth backlog. This is estimated to have saved over 13k productive hours and replaced a team entering them manually. * Updated systems integration testing utilizing Selenium, generating over 6k test cases where there was normally about 50. This led to over 99% of Transportation claims properly adjudicating. * Brought Anaconda/Python to Virginia Premier and became the SME for Python at the company. Established Anaconda Working Group to have Python training disseminated to all analysts at the company. * Was requested by the COO to participate in the Operational Excellence initiative, helping to overhaul benefits configuration in our claims adjudication system for prior authorization requirements and accumulators |
| Feb. 2015 - | **AVP, Operations Research Analyst II** [Bank of America](https://www.bankofamerica.com/) |
| Mar. 2017 | * Role previously performed by various partners, but consolidated into a single role, creating forecasts for seven out of eight of the functions for existing Customer Credit. * Performed research and presented findings to broader Home Loans Fulfillment Forecasting, Reporting, Analytics and Capacity Planning organization. * Forecasts showed downward trend in work for the department. This led to the transition of over 50 associates to other roles within the bank over a year and a half long period, leading to significant cost savings due to a reduction in force while preserving jobs. |
| Dec. 2013 - | **Credit Quality Analyst** [Bank of America](https://www.bankofamerica.com/) |
| Feb. 2015 | * Was one of the first employees to join this team, quickly became an SME for the role and helped create a standardization of practices. * Performed ad-hoc analyses leading to policies that increased outbound contact percentages by 10%. * Created employee metrics which led to lower overall variance in performance. * Ran training sessions for new hires and current associates, coached teammates and performed side by sides to ensure compliance with policy and processes. |
| Feb. 2013 Dec. 2013 | **Home Services Specialist I** [Bank of America](https://www.bankofamerica.com/) |

* Performance was recognized by becoming dedicated loan processor for highest grossing mortgage loan officer on west coast.
* Process loan applications for non-conforming, conforming and conforming high-balance first mortgage and combo loan products. Perform initial underwriting of loan applications. Assist coworkers and new hires with questions regarding policies and systems.

Aug. 2012 -

Feb. 2013 **MLO-Loan Closer** [Bank of America](https://www.bankofamerica.com/)

* Create final documents for first mortgage purchases and refinance. Ensure mortgage documentation follows federal and company guidelines. Maintain contact with borrowers to explain steps in closing. Train new hires in closing process.

# Research Interests

Geospatial unsupervised learning, time-series forecasting using RNNs/LSTMs, iterative hyperplane fitting