

Natalie M. Olivo

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I am a meticulous and incisive insight-finder, a dynamic collaborator, and a life-long learner. I have an aptitude for technical challenges, and with my experience in applied mathematics and training in data science, I bring a determined vivacity to each step of the problem-solving process, bringing grand visions to life.

Professional Experience

Student, GENERAL ASSEMBLY, Data Science Immersive Bootcamp October 2017 – December 2017

Project-based training program that focuses on statistics, data analysis and visualization, and machine learning.

- SAT Participation Case Study: Exploratory data analysis and hypothesis testing; focus on data-driven action.
- Liquor Sales in Iowa: Linear models to predict sales, evaluation of model performance, regularization techniques.
- Going ‘Viral’ on Reddit: Web Scraping and supervised, unsupervised, tree-based classification models.
- Preventing West Nile Virus: Geospatial data evaluation and XGBoost model; 81% accuracy on Kaggle.
- Drive business insights from text data: Use of Twitter API, AWS, Natural Language Processing, and Latent Dirichlet Allocation Topic Modeling; formal presentation of results to stakeholders.

Actuarial Contractor, LYNCHVAL SYSTEMS WORLDWIDE, Washington, DC. March 2017 – March 2018
The Pension Benefits Guarantee Corporation (PBGC)

- Worked on client site with a team to deliver an annual data scraping, collecting, and reasonability checking process to update a database which will be used to project future Pension Insurance performance.
- Over the span of 15 weeks, utilized the Department of Labor Form 5500 website, Visual Basic Macros, MS Excel, and proprietary software to create a database for 450 single-employer plans and 250 multi-employer plans.
- Automated a number of checking and reasonability processes by writing Visual Basic macros and teaching team members how to use and modify them, shaving a day’s work off of each week of the project.
- Consistently reached deadlines early to assist with managerial tasks and big-picture reasonability checking.
- Advanced to manager of a pricing trial for an initiative correcting and amending historical multi- and single-employer plan data.

Actuarial Analyst, WILLIS TOWERS WATSON, Boston, MA. July 2013 – June 2016

- Engineered plan-specific spreadsheets and macros to produce bulk benefit calculations for bulk lump sum offerings and accrued benefit computations.
- Analyzed and implemented proprietary models for pension valuation per PPA, PBGC and ASC guidelines.
- Conducted non-discrimination testing with assumptions in accordance with government regulations.
- Served as internal office resource and mentor in preparing government forms and using new submission software.
- Facilitated intern and new-hire on-boarding by conducting interviews and leading Microsoft Excel trainings.

Technologies & Skills

- Languages & Applications: Python, SQL, R, Excel, VBA, Tableau, HTML, CSS
- Methodologies: Analysis and visualization, Machine learning, time series modeling, Natural language processing, Statistical Modeling, Bayesian Networks, Neural Networks

Education & Certifications

GEORGE WASHINGTON UNIVERSITY, Washington, DC July 2016 – December 2016
Graduate coursework in Data Science, International Trade, and Economics. GPA 3.67/4.0.

BALL STATE UNIVERSITY, Muncie, IN May 2013
Bachelor of Science in Actuarial Science with Honors, Minor in Foundations of Business. GPA 3.6/4.0

SOCIETY OF ACTUARIES

Passed two actuarial exams on financial mathematics and probability/statistics topics. Completion of Validation by Educational Experience Requirements (VEEs)