

EDUCATION

Master of Science in Engineering, Applied Mathematics and Statistics

August 2015 – May 2017

Johns Hopkins University, Baltimore, MD

Bachelor of Science, Computational Mathematics

August 2010 – December 2013

Embry-Riddle Aeronautical University, Daytona Beach, FL

PROFESSIONAL EXPERIENCE

Data Scientist

June 2017 – present

Stanley Black & Decker, Towson, MD

- Integrate machine learning and optimization into manufacturing operations.
- Cluster SKUs into families and design methods to infer their lifecycle.
- Design visualizations to inform business partners of KPIs and potential inefficiencies.
- Create scalable paperless manufacturing software to record information and analyze data in real-time.
- Build software to automate the SKU discontinuance process for complexity reduction.

Data Scientist

January 2014 – July 2015

Product Quest Manufacturing, Daytona Beach, FL

- Implemented statistical learning algorithms to predict the demand of finished goods.
- Navigated large data sets from a variety of sources and compiled them into a centralized datalake.
- Automated forecasting by developing front and back end software.
- Modeled and optimized supply chain and operations procedures.

TEACHING EXPERIENCE

Instructor

Johns Hopkins University, Baltimore, MD

- EN.550.112: Statistical Analysis II

Summer 2016

Daytona State College, Daytona Beach, FL

- MAT0028: Mathematics II

Fall 2014

Teaching Assistant

Johns Hopkins University, Baltimore, MD

Classes: Optimization in Finance, Discrete Mathematics, Mathematical Game Theory, Introduction to Optimization, and Mathematical Modeling and Consulting

Embry-Riddle Aeronautical University, Daytona Beach, FL

Classes: Introduction to Scientific Computing and Probability and Statistics

LANGUAGES AND TECHNOLOGIES

Advanced: Python, Linux, SQL, MATLAB

Intermediate: MongoDB, JavaScript, Vue.js, HTML, CSS, R, Tableau, L^AT_EX

Novice: Fortran, Java, Gnuplot, C++

PUBLICATIONS

- [1] Smith, T. A. and **Hawkins, A.** (2015). An economic regression model to predict market movements. *International Journal of Mathematics Trends and Technology*, 28(1), 1 – 3. doi:10.14445/22315373/IJMTT-V28P501