

## 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 processes.
- Design visualizations to inform managers and operators of potential inefficiencies.
- Create paperless manufacturing initiatives which record information and analyze data in real-time.

### 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 database.
- Built front and back end software to distribute and automate future forecasting.
- Modeled and optimized operating procedures from component purchasing to product assembly.

## 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, MATLAB, Linux, SQL

**Intermediate:** Fortran, Tableau, L<sup>A</sup>T<sub>E</sub>X, R, JavaScript, HTML, CSS

**Novice:** Java, Gnuplot, Haskell, 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