

ANDREW C. HAWKINS

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RESEARCH INTERESTS

Optimization, scientific computing, and statistics with applications in machine learning and computer vision.

EDUCATION

Ph.D. Student, Department of Applied Mathematics and Statistics August 2015 – (Expected) May 2019
Johns Hopkins University, Baltimore, MD

Bachelor of Science in Computational Mathematics August 2010 – December 2013
Embry-Riddle Aeronautical University, Daytona Beach, FL

PROFESSIONAL EXPERIENCE

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

- EN.550.461: Optimization in Finance Fall 2016
- EN.550.171: Discrete Mathematics Fall 2016
- EN.625.741: Game Theory Fall 2016
- EN.550.453: Mathematical Game Theory Spring 2016
- EN.550.361: Introduction to Optimization Fall 2015
- EN.550.400: Mathematical Modeling and Consulting Fall 2015

Embry-Riddle Aeronautical University, Daytona Beach, FL

- MA 305: Introduction to Scientific Computing Fall 2013
- MA 412: Probability and Statistics Fall 2012, Spring 2013

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

LANGUAGES AND TECHNOLOGIES

Proficient: Python, MATLAB, Linux, Fortran, L^AT_EX, R

Exposure: Java, Haskell, Gnuplot, C

AWARDS AND HONORS

- GAANN Fellow (2015 – 2016)
- McNair Scholar (2013)
- Shrinivas Dalal Memorial Scholarship in Mathematics, highest departmental award (2013)
- ERAU Achievement Scholarship (2010 – 2013)
- National Society of Collegiate Scholars (2011)
- Dean's List Standing (2010 – 2013)
- Eagle Scout in the Boy Scouts of America (2010)

SELECTED TALKS

Hawkins, A. C. (2013). Exploring the Fisher Z-Transformation with applications in finance. *Undergraduate Mathematics Conference*. Embry-Riddle Aeronautical University, Daytona Beach, FL.

SIDE PROJECTS

AMS Department Student Seminar, Baltimore, MD

September 2016 – present

Organizer

- Recruit students to give a talk about their current research, summer internships, class projects, etc.
- Coordinate plans and schedule a time and location for the presentation.
- Promote upcoming talks through various forms of media to bolster involvement.

Hawkmatix, Port Orange, FL

July 2012 – present

Contributor

- Publishes open source financial data analysis and trading software with documentation.
- Creates algorithmic trading strategies based on a variety of paradigms.