Robert Lumpkin

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https://github.com/BobbyLumpkin

Analytically and data driven problem solver with experience in data science, machine learning, data wrangling and applied statistics. Eager to collaborate with other innovative individuals in order to solve complex problems.

PROFESSIONAL EXPERIENCE

HUNTINGTON NATIONAL BANK, Columbus OH
Data and Analytics intern & co-op (Summer of 2020 – Spring 2021)
- Delivered projects to support insights, save money and drive innovation within the bank
- Developed product recommendation models using multilabel/deep learning
- Delivered synthetic control capabilities for causal inference
- Delivered automated capability to monitor business customer performance
- Delivered completed web-scraping capabilities to collect data formerly purchased from a third party vendor
- Delivered return on investment reporting for a new proposed product, in accordance with standard reporting practices within the bank
- Was awarded the opportunity to pitch a new product to the Executive Leadership Team along with 6 of my intern colleagues
- Supported liquidity reporting with data wrangling/pre-processing

THE OHIO STATE UNIVERSITY, Columbus OH
Graduate Teaching Associate (2020 – 2021) Part Time Lecturer (2019) Graduate Teaching Associate (2017-2019) Graduate Fellow (2016-2017)
- Recipient of the "Thomas and Jean Powers Teaching Award" awarded by the Statistics Department
- Recipient of a first-year teaching award, awarded by the Mathematics Department
- Mentored new Graduate Teaching Associates for the mathematics department
- Taught recitations for various courses offered by the math and statistics departments
- Graded/created quizzes and exams
- Tutored students in small group and one-on-one settings

GO FITNESS, Columbus OH
Membership Sales Specialist (Summer of 2018)
- Met with potential members to discuss the benefits of memberships, pricing, and give tours of the facilities
- Attended to needs of and answered the questions of current members, including financial concerns

EDUCATION

THE OHIO STATE UNIVERSITY, Columbus, OH
MAS, February 2019-May 2021
- Masters of Applied Statistics degree program
- Involved in multiple data science projects involving machine learning for computer vision, NLP, collaborative filtering and more
- Further honing statistical, technical, and analytical skills in order to be more able to effectively solve complex problems in industry

MS in Mathematics and MMS in Mathematical Biology, August 2019
- MMS Thesis title: "Parameter Classification and Analysis of Neuronal Systems with Astrocytic Modulation of Behavior"
- MS Final project title: "Stochastic Epidemic Modeling Masters Exam"
- Publications: "Modeling outbreak data: Analysis of a 2012 Ebola virus disease epidemic in DRC", Biomath (Sofia, Bulgaria), 2019
- 2016-2017 Enrichment Fellowship recipient
- 2017-2018 RGF fellowship recipient (an award for students pursuing computationally oriented fields of study)

PENNSYLVANIA STATE UNIVERSITY, State College, PA
Bachelor of Science in Mathematics (Graduate Option), August 2016
- Graduated from PMASS (Pre Mathematics Advanced Study Semester) program
- Graduated from MASS (Mathematics Advanced Study Semester) with honors
- 2015 Leonhard Euler Memorial Scholarship recipient
- Achievement award recipient

ADDITIONAL SKILLS
- Coding, analysis, data wrangling and machine learning in R
- Coding, analysis, data wrangling and machine learning in Python
- SQL
- R Shiny
- Data Management and Graphics with SAS
- Coding and analysis in Matlab
- HTML5 and CSS
- Basic familiarity with PHP, Java and beginner level proficiency with C++
- Basic familiarity with Tableau
- Design and Analysis of Experiments, Bayesian Analysis and Non-parametric Statistics
- Excellent ability to communicate to varying audiences acquired through teaching and sales experience
- Very fast and independent learner/Ability to pick up new skills quickly
- Refined ability to work well in groups in addition to individually

GITHUB PROJECTS (non-exhaustive – linked in heading)
- **Multilabel-Text-Classification**: An exploration of multilabel methods applied to text categorization. We train binary relevance, novel algorithmic adaptations, and deep learning models to the popular "Reuters-21578" dataset (often used as a benchmark in text categorization).
- **ThresholdFunctionLearning**: A library to learn threshold functions for multi-label classifiers, as discussed in: Min-Ling Zhang and Zhi-Hua Zhou. Multilabel neural networks withapplications to functional genomics and text categorization.IEEETransactions on Knowledge and Data Engineering, 18(10):1338–1351,2006. doi:doi:10.1109/TKDE.2006.162.
- **RBM_Learn**: A small library for defining and training Restricted Boltzmann Machines.

ADDITIONAL INFORMATION
- Member of the American Statistical Association (ASA), Columbus OH chapter.
- Diverse background of "extracurricular interests/hobbies":
  - I am a health and Fitness enthusiast. I enjoy weight training, and helping others to realize their own fitness goals.
  - Throughout my childhood and into young adulthood, I performed as a passionate classical musician. I was a violinist in "The Philadelphia Youth Orchestra" for two years in addition to playing in many other orchestral and chamber groups.
  - While a student at Penn State, I traveled and competed as a member of both the Penn State Dodgeball Team and Penn State Table Tennis Teams.