

## Prosper Kosi Anyidoho

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### EDUCATION

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#### ***University of Delaware***

Master of Science, Civil Infrastructure Systems *Aug. 2018-Present*

- **Selected Coursework:** Java Programming, Machine Learning, Advanced Data Analysis, Convex Optimization, Data Structures in C++, Data Science in SAS, GIS, Risk Analysis, Big Data Technologies, Database Systems, Cloud Computing, Math Techniques in Data Science

#### ***Kwame Nkrumah University of Science and Technology, Kumasi, Ghana***

Bachelor of Science, Civil Engineering *Aug. 2013-May 2017*

- **Selected Coursework:** Differential Equations, Algebra, Multivariate Calculus, Numerical Analysis, Statistics for Engineers, Microeconomics, Macroeconomics.

#### ***Udacity***

Nanodegree in Natural Language Processing *April. 2020-July 2020*

### PROJECTS

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#### ***University of Delaware***

*August 2018 – Present*

#### **Graduate Research/Teaching Assistant**

***Compared Logistic Regression, SVM, KNN, and Random Forest classifiers for hurricane evacuation demand prediction.***

- Deployed web surveys during hurricane Florence to sample data on population evacuation decision making. Also collected data on hurricane characteristics in GIS.
- Performed data cleaning, feature engineering and visualization using Tableau and packages in R and Python (ggplot2, seaborn, matplotlib)
- Applied Logistic Regression, SVM and Random Forest classifiers to predict evacuation demand using survey data fused with hurricane characteristics. (Tools: Python and R).

#### **Dynamic discrete choice framework for hurricane evacuation | [code](#) |**

- Developed a dynamic discrete choice model in C++ which predicts hurricane evacuation departure time using survey data merged with data on hurricane characteristics.

#### **Sudoku game using Java and JavaFX Scene Builder | [code](#) |**

- Developed Sudoku game using Java and JavaFX Scene Builder as part of a class project.

#### **Kaggle Projects**

- Housing Price Prediction using advanced Regression Techniques | [code](#) |
- Handwritten Digit Recognition with an Android app using TensorFlow Lite
- Disaster Tweets Classification

#### **Teaching Assistant for Probability and statistics**

Spring 2019

### PUBLICATIONS

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- A data-driven and Monte-Carlo risk analysis framework for train derailments in California: Safety and Policy Implications (Conference Paper Accepted).
- A dynamic discrete choice framework to predict population evacuation travel demand during hurricanes (In progress)

## PRESENTATIONS

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- Poster Presentation, “A Dynamic Discrete Choice Framework for Modelling Hurricane Evacuation Demand and Departure Time Decisions”, BRIGHTE workshop, 2019
- Poster Presentation, “A Dynamic Discrete Choice Framework for Modelling Hurricane Evacuation Demand and Departure Time Decisions”, AISIM 15.

## COMPUTER SKILLS

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- Python, C++, Java, R, Microsoft Office, ArcGIS, PowerBi, SAS

## INTERESTS

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- Machine learning/ Data Science
- Dynamic programming
- Numerical optimization
- Business Analytics and Database Systems Design
- Natural Language processing