EDUCATION

Master of Financial Insurance
University of Toronto
2023 - 2024
MASTERCARD FOUNDATION SCHOLAR

MPhil Research Master's
Mathematical Statistics
Kwame Nkrumah University of Science
& Technology (KNUST)
2023

MSc Mathematical Science
African Institute for Mathematical
Science (AIMS)
2020

BSc (Honours)
Actuarial Science
Kwame Nkrumah University of Science
& Technology (KNUST)
2018

SKILLS

Technical: R; Python; AXIS; Microsoft 365

PROFESSIONAL CERTIFICATES/AWARDS

MasterCard Foundation Scholarship - UofT:
2024
AIMS Scholarship: 2019

INTERESTS/ACTIVITIES

Soccer; Volleyball;
Penny Smiles Foundation

Paul Agbekpornu

Ambitious, talented, and results-oriented, Paul holds a Master's degree in Mathematical Statistics and Sciences. His career objective is to apply his expertise on the application of statistical machine learning and stochastic analysis. He has proven interpersonal and time management ability developed through academic projects, work and volunteer experience.

EXPERIENCE

Project: Classification and Prediction of the VIX - Volatility Index [UofT] — Sep. 2023- Oct. 2023
- Investigated the correlation between the S&P 500 Index (SPX) & the Volatility Index (VIX) over 10-year period using datasets from Yahoo Finance
- A Gaussian Mixture Model (GMM) was used to capture latent patterns within the VIX index

Project: Estimating Premium & Benefit Reserve [UofT] — Jul. 2023- Sep. 2023
- Calculated augmented expense premiums using the normal approximation method
- Forecasted the benefit reserve at the end of each month for the first five years
- Predicted, simulated & compared the profit of the whole life & endowment life insurance using Python

MPhil Research Project: Application of Bootstrap Methods to Risk Theory (Insurance & Reinsurance) [KNUST] — Jan. 2021- Mar. 2023
- Compared the premium setting principles of simulated data-set of Log-normal, Gamma, Exponential & Pareto distributions using R
- Examined excess of loss reinsurance using bootstrap approach & measured their riskiness to the insurer & re-insurer
- Utilized bootstrap approach to predict the premium price of general insurance products using scarce data-set

Prudential Life Insurance Ghana (PLIG)
Financial Consultant — Jul. 2020- Jul. 2021
- Ensured clients were adequately covered against illness or accident through appropriate insurance coverage