

Rotimi, Odunayo O.

Curriculum Vitae

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Summary

Detail-oriented and result driven prospective doctoral candidate with substantial years of experience in Time Series Analysis, Financial Engineering, Stochastic Analysis, application and simulation. Master's in Financial Mathematics and Bachelor's in Actuarial Sciences, aiming to leverage the same for a research career.

Skills & Background Knowledge

- High level competence in theoretical financial modeling
- Experienced conducting Econometric analysis
- Reproducible research competency
- Proficient in numerical simulation
- Proficient in Financial data analysis
- Exceptional communication skills
- Skilled in Data Mining and application of Machine Learning Algorithms
- Stata, *Advanced*
- MATLAB, *Intermediate*
- Python, *Intermediate*
- R, *Intermediate*
- SQL, *Intermediate*
- Version control systems (Github)
- LaTeX, *Advanced*

Awards

- Feb 2016 **Central Bank of Nigeria**, NATIONAL AWARD, Sustainable business initiative.
- Oct 2014 **State Honorary Award**, ENVIRONMENTAL PROTECTION INITIATIVE, Nigeria.
- Jun 2013 **Best Graduand**, COLLEGE OF MANAGEMENT SCIENCES, Redeemers University.
- 2010 – 2013 **College Scholar**, COLLEGE OF MANAGEMENT SCIENCES, Redeemers University.

Education

- 2016–2019 **Universität Ulm**, *Master of Science, Financial Mathematics.*
- 2009–2013 **Redeemer's University**, *Bachelors of Science, Actuarial Science.*
First Class
- 2004–2007 **Kaduna Polytechnic**, *National Diploma, Business Studies.*
Distinction

Masters Thesis

- Title **Euler-Poisson Scheme for Discretization Of Lévy Driven Stochastic Differential Equations**
- Supervisor Professor Robert Stelzer
- Description The thesis proposes randomly chosen grids for discretization of Lévy processes, gives the corresponding error estimates and simulations.

Projects

- Jul 2018 – **Predicting Financial Inclusion in Sub-Saharan Africa**, MACHINE LEARNING PROJECT.
Aug 2018 Used World Bank's Global Findex 2104 coupled with Machine Learning algorithm to predict activeness of Mobile Money accounts with transactions made on this accounts as a proxy for Financial Inclusion in Sub-Saharan Africa; I also offered policy recommendations.
- Apr 2018 – **Discretization Methods for Stochastic Differential Equations**, SEMINAR.
Jul 2018 Described techniques for discretization of Stochastic Differential Equations and with aid of Matlab performed Numerical experiments to measure various orders of convergences.
- Apr 2018 – **Linear Methods for Regression**, STATISTICAL LEARNING.
May 2018 Discussed Shrinkage methods (Ridge, Lasso and Least Angle regression) and Dimension Reduction method (Principal Component Regressions) as alternative procedures for improving the Ordinary Least Square methods of regression
- Feb 2017 – **Investor Sentiment Aligned: A Powerful Predictor of Stock Returns**, FORECASTING AND
Jun 2017 ANALYTICS IN FINANCE.
Replicated a proposed investor sentiment index with the aim of predicting the aggregate stock market returns over a given period. Methodology used include Partial Least Squares method of regression with relevant statistical tests.

Work Experience

- May – Nov. **Financial Analyst Intern**, HENKEL, Düsseldorf, Germany.
2019 Analysis of monthly global financial results; report cycle optimization; sales reporting; and provision of forecasting supports.
- **Key Accomplishments:**
 - Responsible for gathering, cleaning and preparing global actual monthly sales figures. Optimized the reporting time by 60% by migrating report to a more efficient BI platform and the use of Excel Analytical tool.
 - Measured performance on region- and continent-wide levels; analyzed variance and provided forecasting supports.
 - Built self-communicative and flexibly updatable visuals that reduced repetitive task procedure using DAX (Data Analysis eXpression) and Power BI.
- Nov 2014 – **Financial Analyst**, OBVIOUS MEDIA GROUP, Lagos, Nigeria.
Sept 2016 Developed and valued new products and services and implemented the respective pricing models. Involved in asset and liability management, financial analysis, and financial planning.
- Oct 2014 – **Mathematics Instructor**, IDEKE GIRLS' SECONDARY SCHOOL, National Youth Service Year.
Nov 2013 Taught Mathematics at Secondary School Level. Identified students with special needs for mathematics education in the host community and engaged them in extra-curricular activities geared at stimulating their interest in mathematics. Received a honorary award for planting 1000 erosion resistor trees to solve the communal challenge of flooding
- Jul 2012 – **Underwriting Intern**, CRYSTALIFE ASSURANCE, Lagos, Nigeria.
Aug 2012 Prepared insurance policies, maintained insurance proposers' database, prepared and processed insurance claims, also provided administrative and technical assistance to the head of the underwriting department.
- Jul 2011 – **Insurance Product Development Intern**, FBN INSURANCE, Lagos, Nigeria.
Sept 2011 Simulated insurance business processes and scenarios; provided technical and advisory support to insurance product retail distribution personnel.

Certifications

- Dec 2017 **German B2**, THE EUROPEAN LANGUAGE CERTIFICATES (TELC).

Languages

- English, *Native speaker*
- German, *Advanced*