

# FREDERIC OKE-AGBO

## Risk Manager - Actuarial Data Scientist

Frederic OKE-AGBO is a Actuarial student and Data Scientist, passionate about holistic investigation of financial securities risks using data driven methods. Has passed all of the required Society of Actuary Exams to achieve Associate of the Society of Actuaries (ASA) designation and has finished Fundamentals of Actuarial Practice (FAP) modules.

## CONTACT INFO

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🌐 github.com/Ouo15

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🐦 fredook15

## SKILLS

Skilled in collaborating with team to provide tailored solutions.

Skilled in machine learning and predictive modeling for risks investigation and quantification.

skilled in R, SQL, Markdown, Shiny, Version Control.

Robust development of data cleaning, preprocessing and visualizations tools.

Systematic literature review, Planning and Evaluation of Health System.

Research Designs: Clinical, Epidemiological, and Survey.

Spoken Languages:  
English(Fluent),  
French(Fluent),  
Goun(Fluent).



## EXPERIENCE

Nov 2021  
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Present

### Biometric Risks Modeling, Experience Analysis

SCOR GLOBAL Re

📍 Charlotte, NC, USA

- Developed model to quantify mortality trend from Cancer screening delay as a consequence of COVID impacts on US Health System. This is one component that goes into several other used to develop holistic mortality trend assumption.
- Developed risk factors embedded Causes of death Mortality Improvement model to better inform mortality improvement that facilitate Expert Judgment.
- Streamlined assumptions validation process by automating the data preprocessing and models calibration using R Shiny.
- Lead the development of predictive models as a basis to develop data driven risks knowledge associated with mortality, morbidity and lapse for assumption development.
- Enriched the data dimensions on mortality risks by using publicly available data to learn about the distribution channels and Socioeconomic landscape in which financial security products were sold by our clients.
- Refined assumptions to be used for pricing, in-force optimization and modelling for valuation.

Sept  
2020  
|  
Nov 2021

### Actuarial Associate

American Equity, Investment and Life Insurance

📍 Des Moines, IA, USA

- Designed actuarial models' data using SQL and Power BI that improve the granularity of projection of models to track the company's Assets and Liabilities.
- Developed assumptions' models for Partial Withdrawals using ensemble Machine Learning techniques that increase the accuracy on the old model by 50%.
- Used comparative models development techniques to established the data driven predictive model model for assumption on Life Income Rider Utilization. The model increase the accuracy on the old model by 25%.

Aug 2018  
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Sept  
2020

### Graduate Teaching Assistant

University of Iowa

📍 Iowa, USA

- Prepared lessons, summarized key learning points, provided academic support, conveyed complex concepts.
- Taught students how to apply statistical concepts to solve real world business problems.

Feb 2011  
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Aug 2017

### Public Health Analyst

CREC

📍 Cotonou, Benin

- Used appropriate statistical methods to design and analyze data from a cohort study that tracks the effectiveness of Long Lasting Insecticidal Nets (LLINs).
- Used survival, logistic and Poisson regression models to estimate life expectancy and to detect the factors associated with loss of physical and chemical integrity of LLINs.

Updated: May 29, 2023.



## EDUCATION

- 2020 • **University of Iowa**  
MSc, Actuarial Science 📍 Iowa, USA
- 2015 • **University Libre de Brussels**  
Master of Public Health (Dist), Public Health Methodologies 📍 Brussels, Belgium
- 2008 • **University d'Abomey-Calavi**  
BSc in Mathematics 📍 Abomey-Calavi, Benin

## VOLUNTEERING LIFE

- Dec 2015  
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Present • **Member of Medical Reserve Corps**  
DeKalb Department of Public Health 📍 Georgia, USA  
Participated in training on incident preparedness and management, to support the local community during times of disasters



## AWARDS

- Apr 2020 • **Robert H Taylor-Knowler Award**  
Outstanding achievement in Life Contingencies.