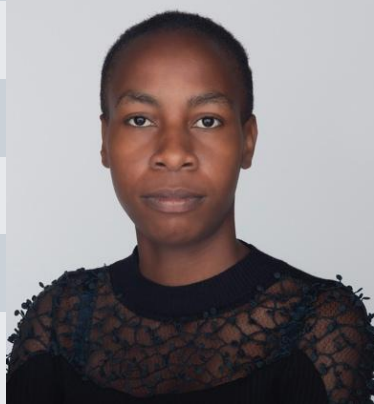


# Angela Nyangate John

Scientific Researcher



## Contact Info

 Campus E 1.7, R 3.03  
66123 Saarbrücken

 +49 0681 302 70787

 ajohn@cs.uni-saarland.de

## Languages

English - Fluent

Swahili - Fluent

## Personal Info

Nationality: Kenyan

## Interests

Reading Research Journals and Publications on Data Science and Climate Change

Exploring Applications of Machine Learning in Sustainability and Environmental Challenges

Engaging in Community Projects Focused on Climate Action and Reforestation

Participating in Hackathons and Data Science Competitions

Staying Updated on Current Global Affairs

Travelling and Adventure

## PROFILE

Data Scientist/Statistician with 2+ years of experience developing and deploying statistical models, particularly in financial contexts, to drive actionable insights and address complex business challenges.

Experienced in predictive modeling, regression analysis, and remote sensing analysis, in delivering solutions in carbon offset markets and reforestation projects. Passionate about leveraging data-driven approaches to tackle climate change, particularly in Kenya and other vulnerable regions. Combining my education background and research experience, I specialize in creating targeted, practical solutions that bridge data insights with real-world impact.

## EDUCATION

**Saarland University** Since 04/2024  
**PhD in Computer Science**  
*Tentative Thesis:* Reforestation and Carbon Offset Monitoring with Remote Sensing

**Saarland University** 04/2023 -03/2024  
**PhD Preparatory Phase**  
*Major Courses:*

- Data Science
- Machine Learning
- Image Processing
- Computer Vision

**African Institute for Mathematical Sciences (AIMS)** 03/2018-04/2020  
**Master in Mathematical Sciences (Data Science)**  
*Thesis:* Credit Risk analysis using Machine learning algorithms  
*Major Courses:*

- Big Data and Machine Learning with both R and Python languages
- Statistical Modelling
- Optimization
- Operations Research
- Financial Mathematics

**Kenya Accountants and Secretaries National Examination Board (KASNEB)** Since 12/2018  
**Certified Public Accountants (CPA)**  
*Major Courses:*

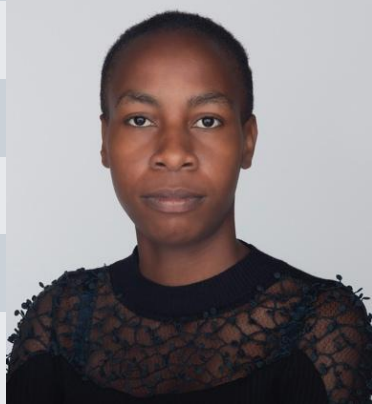
- Financial Accounting
- Management Accounting
- Public Finance and Taxation

**South Eastern Kenya University (SEKU)** 01/1994 -02/2018  
**Bachelor of Science in Statistics**  
*Grade:* First Class Honors  
*Major Courses:*

- Probability and Statistics
- Multivariate Analysis
- Computational Methods and Data Analysis
- Operation Research
- Bayesian Inference
- Decision Theory

# Angela Nyangate John

Scientific Researcher



## References

Prof. Ingmar Weber  
AvH Professor for AI

 iweber@cs.uni-saarland.de

Prof. Ernst Fokue  
Associate Professor

 epfeqa@rit.edu

## Professional Training and Certificates

**Microsoft**  
Data Analyst Certificate (Distinction)

**Cognitive Class IBM initiative**  
Certificate in Computer Applications (Distinction)  
*Major Courses:* Machine Learning  
Global Hi-Tech Computer College

## Leadership Activities and Awards

**MasterCard Scholarship**  
Fully-Funded Scholarship to Pursue Master's Degree

**Team Lead**  
Led Interns Deployed to Coffee Service Management

## WORK EXPERIENCE

**Interdisciplinary Institute for Societal Computing** Since  
**Scientific Researcher** 04/2024

Duties and Responsibilities:

- Leading climate change and forestry research
- Analyzing reforestation monitoring geospatial data and generating Vegetation Indices in google earth engine.
- Extracting and analyzing climate and biomass raster data for vegetation change forecasting

**Cooperative University of Kenya** 09/2020 -  
**Statistics and Programming Tutor** 03/2023

Duties and responsibilities: Lecturing Statistics

Major Courses:

- Statistical Programming with Python and R
- Probability and Statistics
- Multivariate Analysis
- Applied Machine Learning
- Design and Analysis of Experiments and Optimization

**Bluechip Technologies Limited** 09/2019 -  
**Data Scientist** 02/2023

Duties and Responsibilities:

- Using Statistical Machine Learning and Data Mining techniques to develop models used for forecasting different product sales and yields of various qualities with higher accuracy rates.
- Field Inputs Modeling with Optimization and Machine Learning techniques to help reduce the firm's operational costs while maintaining higher yield rates.
- Analyzed and interpreted all data for the companies and extracted relevant decisions.

## KEY COMPETENCIES

Programming Languages: Python, C++, SQL, Java Script, and R  
[https://github.com/anj000004/Forest\\_change\\_detection](https://github.com/anj000004/Forest_change_detection)

Data Skills: Data Exploration, Data Mining, Data Analysis, and Data Modeling

Remote Sensing: Google Earth Engine, QGIS, Satellite Images Processing and Analysis, GDAL

Statistics Packages: STATA, SPSS, SAS, and STATISTICA

Leverage Machine Learning and Artificial Intelligence (AI)  
Apply Math and Statistics Appropriately  
Write Efficient and Maintainable Code  
Leverage Self-Service Analytics Platforms  
Prepare Data for Effective Analysis  
Intellectual Curiosity