

# MEGANG NKAMGA JUNILE STAURES

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## Research Interests:

*Agent-Based Modeling (ABM), Sustainable Finance, ESG, Risk Management, Computational Methods, Predictive Analytics*

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## About Me

I am a dedicated and passionate researcher with a strong foundation in mathematics, financial mathematics, and data science. My diverse academic background, including a BSc in Mathematics, an MSc in Financial Mathematics, and an MSc in Data Science for Business, has equipped me with a unique skill set to tackle complex problems at the intersection of finance, sustainability, and computational modeling. I am particularly interested in leveraging agent-based models (ABM) to analyze financial growth in a sustainable manner over long-term periods. My expertise in statistical modeling, machine learning, and data analysis allows me to approach this research with both theoretical rigor and practical applicability. I excel in collaborative environments, possess strong analytical and communication skills, and am committed to contributing innovative solutions to the challenges of sustainable finance. My attention to detail and ability to synthesize complex information make me well-suited for advanced research in this field.

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## Education

January 2023– January 2024 **Master of Science Data Science for Business, University of Stirling**, Stirling, Scotland-United Kingdom, graduated March 2024 (Distinction)

November 2017– November 2019 **Master of Science in Financial Mathematics, Pan African University, Institute of Basic Sciences Technology and Innovation**, Nairobi, Kenya, graduated November 2019 (Good Grades)

October 2011– August 2014 **Bachelor of Science (B.Sc.) in Mathematics, University of Buea**, Buea, Cameroon, graduated August 2014 (2<sup>nd</sup> Class Honours - Upper Division)

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## Publications

*Published paper in Journal of Applied Mathematics and Bioinformatics titled "Modeling Underlying Assets Log-return in Merton Jump-Diffusion Framework" in 2020.*

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## Experience

### UBA Group

December 2024 - February 2025 **Data Engineer**, *My work involves creating data models, optimizing data storage solutions, and developing analytical dashboards that provide actionable insights for strategic decision-making*

### Resotel Sarl

July - October 2024 **Data Analyst**, *focused on network performance analysis( monitor KPIs, identify bottlenecks), customer behavior analysis ( analyze usage patterns, predict churn), fraud detection ( implement algorithms to flag suspicious activities), regulatory compliance ( prepare reports, ensure data privacy), customer experience improvement (analyze feedback, identify pain points)*

### Data Afrique Hub

2024 - present **Volunteer Data Engineer**, *Volunteering for a pan-African movement platform dedicated to the democratization of access to data science and the transformation of Africa through the power of data.*

### Outlier

March - September 2024 **AI Trainer** , *training generative artificial intelligence (AI) models to become better writers*

### JCPenney

November 2023 - December 2023 **Student Data Scientist**, *focused on analyzing sales datasets for strategic decision-making*

### The Sea Spyder Ltd.

May 2023 - September 2023 **Student Data Scientist**, *led a predictive analytics project for optimal release times of premium whisky bottles*

### GSK

May 2023 - June 2023 **Junior Data Analyst Intern** , *analyzed oncology clinical trial data for new drug effectiveness*

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## NHS Forth Valley

February 2023 - April 2023 **Student Data Consultant** , worked on addressing data-sharing challenges within the organization

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## Academic Awards

- 2023 Award of Research-based learning prize for best MSc Data Science for Business Project.
- 2022 Commonwealth Shared Scholarship funded by the UK Foreign, Commonwealth, and Development Office.
- 2017 Pan African University Scholarship in Kenya sponsored by the African Union Commission.
- 2013 - 2015 Presidential excellence grant, Government, Cameroon.

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## Skills

### Technical Skills

- ,
- Programming in Python and  $\mathcal{R}$
- Database Management (SQL, MariaDB)
- Mathematical Modeling
- Statistical Analysis
- Data collection

### Soft Skills

- ,
- Team Collaboration
- Communication
- Presentation
- Time Management
- Attention to Details

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## Languages

French C2  
English C2

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## References

Prof. Dr. Audrius Kabasinskas (Project Supervisor)

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Prof. Kevin Swingler, Lecturer

*Division of Computing Science and Mathematics*- University of Stirling, UK.  
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