

STEVE FERACE TANEFO MEFEZA

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SUMMARY

MINT Fellow and AIMS alumnus currently pursuing Master 2 Research and Innovation in Probability and Statistics at Université Toulouse III. Passionate about mathematical applications in quantitative finance, actuarial sciences, and statistical modeling. Developing expertise in stochastic processes and computational methods to solve real-world challenges.

EDUCATION

M2 Research and Innovation in Probability and Statistics 2025 - 2026

University of Toulouse (UT3), Toulouse France

Courses : Stochastic Calculus, Asymptomatics Statistics, Advanced statistical methods, Convergence of Probability Measures and Introduction-to-Optimal Transport

Full-time scholar ([MINT Fellowship](#))

Structured Master's Degree in Mathematical Sciences, Fundamental Sciences 2023 – 2024

The African Institute for Mathematical Sciences (AIMS), Limbe Cameroon

3.58/4 GPA

Courses : Programming, Data preprocessing, Optimization and Numerical Methods, Probability / Statistics, Stochastics Processes, Financial Mathematics, Mathematical Modelling, and English

Full-time scholar

Rank: top 10

Master 1 in Mathematical Economics 2022 – 2023

University of Douala, Douala Cameroon

3.33/5 GPA

Course : Stochastic Calculus, Game Theory, Microeconomy, Functional Analysis, Partial Differential Equations (PDEs) and Sobolev Spaces, Optimization and Calculus of Variations

Bachelor's Degree in Applied Mathematics 2019 – 2022

University of Douala, Douala Cameroon

3.43/5 GPA

Courses : Probability Theory, Stochastic Processes, Differential Equations, General Topology

Baccalaureate C 2018 – 2019

Ndog-Hem High School, Douala Cameroon

14.74/20 Average

Major : Mathematics and Physics

RESEARCH INTERESTS

Stochastics (Probability Theory, statistics, stochastic analysis, mathematical finance), Actuarial Sciences, Computational Mathematics, Mathematical Modeling.

SKILLS

Technical Skills

- **LaTeX** : write scientific reports and articles
- **Python** : programming / Data Preprocessing / Numerical Methods

- **R** : Statistical Inference
- **Sage Math** : Numerical method, Plotting

Managerial Skills

- Good team-leading skills gained through our monthly group presentation (AIMS Cameroon).
- Good communication skills gained through my experience as Principal Class Delegate.

RESEARCH EXPERIENCE

Master Research on Spectral Theory in Normed Vector Spaces

2024

My primary objective was to develop a comprehensive framework for the functional calculus of linear operators, beginning with finite dimensions and extending to infinite-dimensional normed vector spaces. Central to this work was the Riesz-Dunford functional calculus, which represents operator functions as contour integrals involving the resolvent.

AIMS SPEAKER INVITEE

Approximation Theory

March 2024

In this presentation, I provided an overview of wavelet analysis within the context of Approximation Theory. I discussed the definition, properties, and applications of wavelets, with a particular focus on the Haar wavelet. The talk examined the unique characteristics of the Haar wavelet and its significant role in function approximation and image denoising.

The Black-Scholes Equation and Long-Term Capital Management

May 2024

In my talk on the Black-Scholes equation, I examined its revolutionary impact on options pricing and modern financial theory. I explored the equation's foundational principles and its application by Long-Term Capital Management, highlighting both its initial successes and the eventual pitfalls that led to the hedge fund's downfall. This discussion emphasized the importance of understanding the limitations of mathematical models and the implications for financial stability and regulation.

WORK EXPERIENCE

Academic Coordinator at SM: Secret des Maîtres

Ongoing

As an Academic Coordinator at Secret des Maîtres, a preparatory group for scholarship entrance exams, I am responsible for preparing candidates for the BECEAS exam, which is the entry test for actuarial and statistics schools in France. My duties include designing study materials, creating practice exams, and developing resources to ensure effective preparation.

Data Entry Volunteer at the City Council, Limbe Cameroon

2024

Gave back to the community by entering data into the computer system at the City Council. Contributed to the organization and management of municipal records.

Private Tutor

2020 - 2023

Tutoring and Mentoring of Mathematics and Physics in Vector Analysis, Probability and Statistics (Levels 1 and 2) , Probability and Stochastic processes (Level 3).

SOCIAL LIFE

AIESEC - Member of the Marketing Department

April 2023 - Present

As a member of the Marketing Department since April 2023, I contribute to promoting international internships and leadership opportunities for youth. AIESEC (International Association of Students in Economics and Business Management) fosters cross-cultural understanding and personal development, empowering young people to make a positive impact in their communities.

OWP: One Word Project

Juillet - August 2023

I participated in the OWP organised by AIESEC in Cameroon, with the responsibility of going to a village for one month in order to implement Sustainable Development Goals (SDGs), mainly in health and education.

DIB: Bamendjo Intellectual Dynamics (Academic Mentor)

2020 - Present

Volunteer mentor providing academic support to secondary school students in Bamendjo during Easter breaks. Helped prepare students for national examinations with proven success. [View impact story on LinkedIn](#)

CAMAS-JEUNES: Cameroon Youth Assistance

2020 - Present

Engaged member of CAMAS-JEUNES, an association aimed at bringing together young people to pool their resources (energy, intellectual, and financial) to create jobs through the establishment of industries.

CONFERENCES

Deep Learning IndabaX Cameroon 2025, JFN HIGHTECH UNIVERSITY INSTITUTE, Dja

Apr. 2025

Three-day volunteer responsible for participant organization, technical assistance, and workshop coordination. Contributed to smooth operations and positive experience for all conference attendees. [\(Link\)](#)

NLDS: National Leadership and Development Seminar

May. 2023

Four days of national conference organized by AIESEC Cameroon (international association of students in economics and business) to develop leadership among its members through training sessions. [\(Link\)](#)

YouthSpeak

May 2023

Conference organized by the Francophone Employability Center of Douala on the importance of volunteering in students' professional integration. [\(LinkedIn Post\)](#)

HONOURS AND AWARDS

Structural Master's Distinction Award, AIMS Cameroon

2024

Prize for Academic Excellence from H.E. Paul Biya

2021

Awarded Best Student in the final year at Ndog-Hem High School, Douala.

2019

LANGUAGES

• **French: Native**

• **English: Fluent**

REFERENCES

- Prof. Marco Merkli, Supervisor | Memorial University, Canada, merkli@mun.ca
- Dr. Daniel Tcheutia, Academic Director | AIMS-Cameroon, daniel.tcheutia@aims-cameroon.org
- Prof Eddy Armand Kwessy, Lecturer | Trinity University, USA, ekwessi@trinity.edu
- Dr. Aurelien Noupelah Junior, Mentor | AIMS-Cameroon, aurelien.noupelah@aims-cameroon.org