

# Aaron ANAMPIU



## PROFILE

I am a passionate and reliable mathematician with a strong focus on data-driven solutions. My expertise lies in using mathematical analysis, data-driven insights, innovative models and advanced software to optimize system performance and deliver impactful results. I have a proven work ethic and the ability to solve familiar and new problems. Staying on the cutting edge, I am committed to driving success through precision, collaboration and continuous skill development.

## CONTACT DETAILS

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## PERSONAL INFORMATION

Citizenship: **Kenyan**

Languages: **French** (A1),  
**English** (native), **Swahili** (native).

## SKILLS

- Python
- Machine Learning
- Data Analysis
- Matlab, Latex
- Research, Analytical, Problem Solving
- Leadership
- Fast learner, love for learning
- Time Management
- Communication and team collaboration
- Intercultural

## EDUCATION

MASTERS IN AI FOR SCIENCE. AIMS . *African Institute for Mathematical Sciences, South Africa.* **2025.9–Present**

◇ Problem Solving in Machine Learning, Machine Learning Operations, Applied Machine Learning at Scale, AI for Climate Change, AI for Biomedicine

MASTERS IN FUNDAMENTAL MATHEMATICS. UFR Mathematics . *Universite De Rennes, France.* **2024.09–2025.07**

◇ Grade: Assez Bien

◇ Thesis: Dynamics of the Mapping Class Group on Character Varieties - Finite and Bounded Orbits

BACHELOR OF SCIENCE IN MATHEMATICS. Faculty of Applied Sciences . *Technical University of Kenya.* **2019–2023**

◇ Grade: First Class Honours

◇ Mathematical modelling, numerical methods, Analysis, PDEs, ODEs, Simulation and Modelling.

## ADDITIONAL EDUCATION

MATHEMATICAL MODELLING OF CHEMICAL REACTION NETWORKS. *African Mathematics Summer School 2023-Nairobi (Kenya)* **2023**

◇ Deterministic Models for Chemical Reaction Networks, An introduction to Stochastic vs Deterministic Models, In-host models for infectious diseases, Applications of reaction Networks to ecology, computation and biochemistry, Stochastic modelling in math biology.

DATA SCIENCE. *Denaco Analytics.* **2022**

◇ Python, SPSS, SQL, Advanced Excel.

## EXPERIENCE

RESEARCH INTERN at *Rennes Institute of Mathematical Research, IRMAR (France)* **2025.03– 2025.06**

◇ Applied advanced mathematical modeling to analyze complex dynamical systems. ◇ Studied transformation rules and invariants under group-based operations.. ◇ Performed fixed-point, stability, and orbit analysis to classify system behaviors. ◇ Worked with high-dimensional geometric data structures and parameterized models.

STATISTICIAN INTERN at *County Government of Mombasa (Kenya).* **2023.03–2024.02.**

◇ Data analysis, cleaning and visualization using Excel and Python - successfully cleaned 69,000 plots that needed to be mapped ◇ Conduct in-depth research for planning purposes

FINANCE INTERN at *Kenya Medical Supplies Authority (Kenya).* **2022.07–2022.10**

◇ Salary advance, special advances and travel process ◇ Debt management, credit management ◇ Recording invoices and clearing payment from creditors ◇ Asset verification and record keeping ◇ Reconciliations and inventory control

SCHOOL REPRESENTATIVE at *Technical University of Kenya (Kenya).* **2021.09–2022.11**

◇ Personal drive, leadership development, cross-functional team leadership, organisational and strategic leadership.

## CONFERENCES

MASTER. *Angers, France.* **2024**

◇ Introduction to random permutations and Graph Complexes.

## FUNDINGS AND AWARDS

◇ Google DeepMind Scholarship

**2025**

◇ French Government Scholarship

**2024**