

# Béria Chingnabé KALPELBE

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## ABOUT ME

I am a skilled statistician and Google DeepMind scholar specializing in AI for Science. With expertise in statistics, I extract insights from diverse datasets. My passion for AI extends to robotics, where I am deeply committed to advancing the field and exploring innovative applications at the intersection of artificial intelligence and robotics.

## EDUCATION

**African Institute for Mathematical Sciences (AIMS), South Africa**

Expected graduation date: July 2024

Msc. in AI For Science | [Link to all courses](#)

**GPA: - /100**

**Google Deepmind** Scholarship + one-to-one mentorship with a Google's expert

**Affiliated** to Stellenbosch University, South Africa.

**Relevant Courses:** AI Mind and Brain, Reinforcement Learning, Simulation based inference, Computer Vision, Bayesian modeling, Natural Language Processing, Theoretical foundations of AI

**Sub-Regional Institute of Statistics and Applied Economics (ISSEA), Cameroon**

Graduation date: July 2023

Statistical Engineering | [Link to student profile](#)

**GPA: 71/100**

**World Bank** Scholarship

**Relevant Courses:** Information System, Data base, Statistics, Data analysis, Data modeling, Data Mining, Time series forecasting, Sampling & Simulations, Machine Learning, Convexity & Optimization.

## SKILLS

**Programming skills:** Python | R | GPU Programming | HTML, CSS, Java Script | SQL | PHP | Dart

**Languages:** French : ★★★★★★

English : ★★★★★☆

## EXPERIENCE

**World Food Programme (WFP), Cameroon**

Feb. 2023 - Jun. 2023

*Statistician Engineer Intern*

*Python | R*

- Comprehensive data quality control processes for surveys, ensuring accuracy and reliability in the collected data.
- Food security analysis utilizing advanced data analysis techniques for valuable insights and inform decision-making.

**Ministry of Finance and Budget, Chad**

Jun. 2023 - Sep. 2023

*Data analyst intern*

*Python | R | MySQL*

- Conducting comprehensive predictive analyses of tax revenues, employing advanced modeling techniques to enhance financial forecasting and planning.

## PROJECTS

**AIMS Academic Project:**

Feb. 2024 - Ongoing

*Anomalies Detection in High Energy Physics Data*

*Supervisor: Dr. Daniel Murnane (CERN/ATLAS)*

- The ATLAS experiment at the Large Hadron Collider (LHC) collects billions of collisions every second, and needs to quickly decide which of those are “interesting” and which are “boring”. One kind of “interesting” event are those that we have never seen before - so-called “anomalous physics”.
- We try to train an ML model on some typical physics events that we know very well, and teach it to detect when an unknown event appears.
- This project will be essential for effectively discovering new physics at the LHC.

**Personal project:**

Dec. 2023 - Ongoing

*Moundang Intelligent Translator*

- Successful design and implementation of an intelligent machine translator for the Moundang language, enabling bi-directional translation with significant accuracy.
- Gathering of a diversified corpus of data in the Moundang language, followed by a rigorous pre-processing process to guarantee the quality of the training data.
- Successful integration of advanced models such as BERT, optimizing contextual understanding. Moundang-specific customization for accurate translations.
- This project supports language preservation by providing a technological solution adapted to Moundang, while paving the way for future advances in machine translation for lesser-used African languages.