

# Béria Chingnabé Kalpélbé

Toukra, N'Djamena, Chad

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## ABOUT ME

I am a proficient statistician and AI engineer. I excel at extracting actionable insights from diverse datasets to support informed decision-making. With a proven track record designing, training, and deploying AI models, I bring a versatile skill set and passion for leveraging data and AI to drive innovation. My passion extends into robotics, where I am committed to advancing the field and exploring cutting-edge applications that harness the synergies between artificial intelligence and autonomous systems.

## EDUCATION

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

Graduation date: July 2024

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

**Score: Good Pass**

**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](#)

**Score: Good Pass**

**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.

## RESEARCH EXPERIENCE

**Academic projects:**

School: ISSEA-CEMAC, Cameroon | Bsc.

Speciality: Information System and Decisional Statistics

Project title: Analysis of food price effects on food security

Host: World Food Programme

Methodology: Classification of households using probit and logit regressions

School: AIMS SA & Stellenbosch University | Msc.

Speciality: Artificial Intelligence

Project title: Anomalies Detection in High Energy Physics

Host: CERN/ATLAS

Methodology: Generative AI based anomaly detection

**Fatima Fellowship - ongoing remotely:**

Project title: Visual Language Modeling (VLM) in Medicine

Mentor: Dr. Wei Peng, Stanford University

Idea of the project: To design, implement and train a VLM to solve a specific problem in Medicine

## PAPER UNDER REVIEW

Title: Enhancing malaria management in Chad

Conference: International Conference on the Promotion of Applied Statistics for decision-making and development in Africa

Purpose: To identify high-risk malaria zones in Chad and provide insights for resource allocation policies, contributing to the achievement of SDG3 – Good Health and Well-being.

Methodology: Bayesian spatio-temporal modeling incorporating dummy variables.

## SKILLS

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

**Deep learning frameworks:** Jax | PyTorch | Tensor Flow

**Languages:** French : ★★★★★★

English : ★★★★★☆

## COMMUNITY ENGAGEMENT

**Mundang-AI team - team leader:**

Led a team focused on developing AI technologies for the local Mundang language.

Key responsibilities of the team: collect and process data, design and train AI model, validate and refine outputs, deploy the AI system.

Accomplishment: Successfully submitted a research proposal to the Lacuna Fund for funding support.

**IndabaX Chad - active member:**

Active member of IndabaX Chad, collaborating with local researchers, enthusiasts, and professionals to share the latest advancements in AI and develop solutions to address local challenges.