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# CURRICULUM VITAE

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## I. Identification



First Name : EMMANUEL  
Last Name : NYANDU KAGARABI  
Date of Birth : 23/12/1996  
Marital Status : Single  
Gender : Male  
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## II. Education

DURATION	INSTITUTION	LOCATION	DOMAIN	DIPLOMA
January 2024 - to date	AIMS SOUTH AFRICA	CAPE TOWN, SOUTH AFRICA	<a href="#">Artificial Intelligence for Science</a>	Master
October 2016 - October 2021	ISP/BUKAVU	BUKAVU, DRC	<a href="#">Mathematics</a>	Licence (Bachelor's)

## III. Presentations

- ☑ October 29th, 2021 : Public defense of a bachelor's thesis on [Treatment of numerical tensors](#) to a jury of the department of Mathematics-Physics of the ISP/BUKAVU. Mention : Great Distinction.
- ☑ October 20th, 2019 : Presentation of a final cycle work (TFC) on [Numerical methods of non-linear optimization](#) to a jury of the department of Mathematics-Physics of ISP-BUKAVU. Mention : Distinction.

## IV. Professional experiences

### (a) Higher and University Education

- ☑ September 2022 - December 2023 : Part-time assistant in charge of practical work in the courses of [Linear Algebra](#), [Mathematical Analysis](#), [Analytical Geometry and General Mathematics](#) in L1 at the faculties ECOLE DES MINES and SCIENCES (Geology, Biology, Environment and Agronomy) of the Université Officielle de Bukavu (UOB-BUKAVU).
- ☑ October 2022 - December 2023 : Visiting assistant for the [General Mathematics](#) course in L1 at the Institut Supérieur d'Etudes Commerciales et Financières de Bukavu (ISECOF-BUKAVU).
- ☑ April - June 2022 : Teacher of the [MATHEMATICS FOR CHEMISTS II](#) teaching unit in L3 Chemistry-Physics at the Institut Supérieur Pédagogique de Bukavu (ISP-BUKAVU).

### (b) Other experiences

- ☑ October 2021 - December 2023 : Teacher of mathematics and physics at the MAENDELEO/Bukavu School Group Institute.
- ☑ December 2020 - January 2021 : Internship in the UREMA (Unité de Recherche et Enseignement de Mathématiques Appliquées) of ISP-BUKAVU.
- ☑ September - October 2018 : Company internship at RUZIZI I hydroelectric dam.

## V. Languages

- \* French : Fluent
- \* English : Proficient (CEFR B2)
- \* Kiswahili : Native Speaker

## VI. Skills

- ▲ Artificial Intelligence tools(Machine/Deep Learning, Computer vision, Diffusion Models, SBI)
- ▲ Skills related to the use of scientific text processing software  $\text{\LaTeX}$ .
- ▲ Python programming language : Numpy, Matplotlib, Numpyro, Jax, TensorFlow and PyTorch.

## VII. Awards

- On April 24th, 2021 : Recipient of a scholarship award **Bourse d'Excellence Cimpunda(BEC)**, which rewards the best students in BUKAVU town.
- January to December 2024 : Google DeepMind scholarship recipient for the AI for science master's program at AIMS SOUTH AFRICA.

## VIII. Referees

- Claire David : Academic Director of the AI for Science Masters program at AIMS SOUTH AFRICA.  
Mail : [claired@aims.ac.za](mailto:claired@aims.ac.za)
- BUHENDWA NYENYEZI Justin : Doctor in Mathematical Sciences (Numerical Optimization) at the University of Namur/Belgium, Head of the Exact Sciences Section and teacher in the Mathematics-Physics Department at ISP-BUKAVU.  
Contacts : +243 975 589 099/851 216 456, [justinnyenyezi@gmail.com](mailto:justinnyenyezi@gmail.com).
- Simon MUYA KASANDA : Doctor of Science (Astrophysics) at the University of Durban and Director of the Faculty ÉCOLE DES MINES at UOB-BUKAVU.  
Contacts : +243 825 595 081, [simon.muya.kasanda@gmail.com](mailto:simon.muya.kasanda@gmail.com).
- Lucien ZIHINDULA BIGURU : Doctor in mathematical sciences (Differential Geometry) at the University of Kinshasa (UNIKIN) and teacher at the UOB-BUKAVU and at the Catholic University of Bukavu (UCB BUKAVU).  
Contacts : +243 823 049 302, [zihindulabig@gmail.com](mailto:zihindulabig@gmail.com).
- MINANI IRAGI Emmanuel : Doctor in Mathematical Sciences (Topology) at the University of the Western Cape in Cape Town/RSA and lecturer in the Department of Mathematics-Physics at ISP-BUKAVU  
Contacts : +243 973 449 048, [84miragi2016@gmail.com](mailto:84miragi2016@gmail.com).

*I solemnly declare upon my honor that these data are accurate and up to date.*

CAPE TOWN, April 21, 2024

Emmanuel NYANDU KAGARABI

