

# Pascal SUNGU NGOY

✉ [pascal.sungu@crid-cam.net](mailto:pascal.sungu@crid-cam.net) | ✉ [pasklsungu@gmail.com](mailto:pasklsungu@gmail.com) | 📞 +237676274057  
🔍 [Researchgate Profile](#) | [LinkedIn Profile](#) | [Google Scholar Profile](#)

## Education

<b>PhD in Applied Mathematics to Life Sciences</b> <i>University of Douala, Douala, Cameroon</i>	Feb. 2023 - Present
<b>MSc in Mathematics (Computational Option)</b> <i>The Pan African University Institute for Basic Sciences, Technology and Innovation (PAUSTI) and Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya</i>	May 2019 - April 2021
<b>MSc in Mathematical Sciences</b> <i>African Institute for Mathematical Sciences, Limbe, Cameroon</i>	Aug. 2017 - June 2018
<b>Postgraduate diploma in Mathematics and Computer Science (Bac+5)</b> <i>University of Lubumbashi, Lubumbashi, DRC</i>	Oct. 2009 - July 2015

## Published Articles

- Jonathan Lenge, Kaninda Musumbu, Geisla Wanuku, and Pascal Sungu. 2022. **Blockchain Technology as A Guarantee of Transparency in The Supply Chain of Commercial Enterprises**. In 2022 3rd Asia Service Sciences and Software Engineering Conference (ASSE' 22). Association for Computing Machinery, New York, NY, USA, 1–7.
- Ngoy, P. S., Musumbu, K., & Gathungu, D. K. (2021). **A Mathematical Modeling Approach in Cybersecurity Using Deep Neural Learning**. International Journal of Advanced Research in Science, Engineering and Technology, Vol. 8, Issue 6, June 2021.
- Ngoy, P. S., Musumbu, K., & Gathungu, D. K. (2021, May). **Combining Epidemic Model and Deep Learning to Study Cyber Attacks**. In 2021 International Conference on Computer Communication and Artificial Intelligence (CCAI) (pp. 150-154). IEEE.
- Ngoy, P. S., Musumbu, K., & Wandji, N. (2021). **An Approach of Concept Lattice Theory in Data Mining and Its Applications**. Theory and Practice of Mathematics and Computer Science Vol. 7, 57-75.
- SUNGU, P., MUSUMBU, K. & WANDJI, N. (2019). **Concept Lattice Theory in Data Mining and its Applications**. IJRDO - Journal of Computer Science Engineering (ISSN: 2456-1843), 5(7), 01-10.

## Scholarship and awards

<b>Global Development Hub Fellowship</b> <i>Imperial College London, London, United Kingdom</i>	May. 2024 - July 2024
<b>African Consortium in Modeling for Effective Vector Control (ACoMVeC) Scholarship</b> <i>Centre for Research in Infectious Diseases (CRID), Yaounde, Cameroon</i>	Feb. 2023 - Present
<b>Pan African University Scholarship</b> <i>The Pan African University Institute for Basic Sciences, Technology and Innovation (PAUSTI) and Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya</i>	May 2019 - April 2021
<b>African Institute for Mathematical Sciences Scholarship</b> <i>African Institute for Mathematical Sciences, Limbe, Cameroon</i>	Aug. 2017 - June 2018

## Training & Conferences

<b>Modern Statistics and Machine Learning for Population Health in Africa</b> <i>Meeting Activities</i> <i>Attended a hands-on training on probabilistic programming and advanced statistical modelling for population health, hosted at AIMS Cape Town and led by Imperial College London and partners. Topics included Bayesian workflows in Stan, hierarchical models, Gaussian processes, and infectious disease modelling with real-world applications in malaria and HIV.</i>	24th- 28th March 2025
<b>Technical Vector Control Advisory Group (TVCAG) for Cameroon</b> <i>Meeting Activities</i> <i>Participated in a consultative TVCAG meeting organized by CRID, contributing to the development of five operational research projects focused on enhancing malaria control strategies in Cameroon through mathematical modelling.</i>	March 28, 2024
<b>Malaria Modeling Symposium : AMMnet Cameroon Chapter</b> <i>Meeting Activities</i> <i>I presented at the Malaria Modelling Symposium, a scientific event fostering networking and knowledge exchange among PhD students, early career researchers, and decision makers in malaria modelling. My talk focused on 'Modeling the impact of Indoor Residual Spraying on Malaria Disease,' contributing to discussions on vector control dynamics and interventions</i>	February 08, 2024

**Meeting Activities**

Participation in the Regional AMMnet event titled "Training of medical entomologists in mathematical modelling" held from October 5-6, 2023, in Yaoundé, Cameroon.

**PAMCA Annual conference and Exhibition**

September 17-21, 2023

**Meeting Activities**

Participated at the 9th PAMCA Annual Conference and Exhibition held from September 17-21, 2023, at the Skylight Hotel, Addis Ababa, Ethiopia, under the theme "Reorienting surveillance and management in the context of emerging threats of disease vectors."

**Experience****Part-time Lecturer**

Oct. 2022 - Present

University of Lubumbashi (UNILU) and Don Bosco University of Lubumbashi (UDBL), Lubumbashi, DRC

**Responsibilities**

- Teaching and providing tutorials in the Mathematics and Computer Science department for the following unit: *Algorithms and Data Structures (BAC 2-UNILU)*.
- Teaching and providing tutorials in the Software Engineering department for the following unit: *Introduction to Artificial Intelligence (Bachelor 4 - UDBL)*.

**Netsuite Technologies and Integration Consultant - ERP, IPaaS, CRM**

June 2022 - July 2023

Big Bang ERP, remote, Canada

**Responsibilities**

- Functional and technical advisor for cloud solutions (NetSuite, Celigo, Boomi, Jira).
- Supporting clients' digital transition.

**Teaching Assistant**

Nov. 2018 - Nov. 2021

Nouveaux Horizons University (UNH), Lubumbashi, DR Congo

**Responsibilities**

- Teaching and providing tutorials to the Computer Science faculty and the School of Engineers in the following units: Algorithms and Data Structures, Python Programming, General Computer Science;
- Managing exam papers and grades for the Computer Science faculty, the School of Engineers, and the School of Architecture (First semester 2019);
- Co-supervising bachelor's level projects in the Computer Science faculty;
- Co-organizing the international conference on Artificial Intelligence (Deep Learning IndabaX DRC) - 2019.

**Volunteering****Peer-reviewed Manuscript Evaluator**

Apr. 2021 – Present

- Reviewing peer-reviewed manuscripts in the fields of mathematics and computer science.

**Support in IT Skills (Limbe, Cameroon)**

Nov. 2017 – Apr. 2018

- Assisting nurses and administrators at Limbe Hospital and at the University of Buea in mastering IT tools: Excel, Word, PowerPoint.
- Assisting the IT manager in installing UBUNTU operating systems on AIMS machines and some basic software such as: Python, Sage Math, SciLab, LaTeX.

**References****Professor Thomas Churcher***Imperial College London, London, United Kingdom*

✉ [thomas.churcher@imperial.ac.uk](mailto:thomas.churcher@imperial.ac.uk)

**Professor Samuel Bowong***University of Douala, Douala, Cameroon*

✉ [bowong@univ-douala.com](mailto:bowong@univ-douala.com)