



# Damien WOHWE SAMBO

Ph.D. in Computer Engineering

## WORK EXPERIENCE

- **FUN Team, Inria Lille Europe-Nord, France | PostDoct researcher**  
June 2022 – Today
- **The University Institute of Technology of Ngaoundéré | Temporary lecturer**  
October 2020 – Today
  - Introduction to Information Systems (BTS 1).
  - Introduction to Software Engineering (BTS 1).
  - Object-Oriented modelling in UML (BTS 2).
- **Faculty of Science of the University of Ngaoundéré | Temporary lecturer**  
September 2018 – Today
  - Introduction to Computer Science (L1MA).
  - Web Application Engineering (L3IN).
  - Datawarehouse (M1IN).
- **Analysis and treatment of statistical data | Trainer**  
April 2018 – Today
  - Getting started with the software IBM SPSS.
  - Processing and interpretation of survey data.
- **Faculty of Science of the University of Ngaoundéré | Academic assistant**  
November 2017 – July 2018
  - Monitoring of students.
  - Management of tutorials and practical works at the Department of Mathematics and Computer Science.
- **Kountac inc. | Web developer & mantainer**  
August 2016 – Today
  - Development of the web application Kountac.fr for the online sale of African products using symfony framework.
  - Maintenance, adding of new functionalities and optimising.

## EDUCATION

- **Ph.D. in Computer Engineering / The University of Ngaoundéré, Cameroon** (Mention : Very Honourable)  
April 2016 – July 2021  
*Doctoral Unit Training - Mathematics, Computer Science and Applications (UFD-MIAP).*  
Thesis co-directed by the University of Bremen and the University of Ngaoundéré  
Title: “Desing of a Wireless Underground Sensor Network for Precision Agriculture”  
Field of study : Internet of Underground Things (IoUT)
- **Master of Science in Computer Engineering / The University of Ngaoundéré, Cameroon** (Grade : B+ (Top 5))  
October 2012 – January 2016  
*Systems and Software in Distributed Environments (SLED).*  
Grade : B+ (top 5)


## PROFILE


I am post doctoral researcher in Computer Engineering with FUN Team at Inria Lille Europe-Nord Research Center in France. Since July 2021, I am a Ph.D. holder in Computer Science in the Doctoral Training Unit of Mathematics, Computer Science and Applications of the University of Ngaoundéré. Apart from my technical skills, I describe myself as a cheerful person who is pleasant to work with. I have a passion for new technologies and I like the work well done.

 [My personal website](#)

## CONTACT

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## PROGRAMMING SKILLS



## DIGITAL SKILLS

- Windows / Ubuntu OS / Debian
- Microsoft Office, Libre Office
- Latex
- Pymakr
- Espressif ESP-IDF
- Arduino IDE
- Castalia
- Contiki / Cooja
- Symfony

### ■ Bachelor of Science in Computer Engineering / The University of Ngaoundéré, Cameroon.

October 2009 – July 2012

*Computer's network and Architecture (AR).*

Grade : **C+** (1<sup>st</sup>)

### ■ Baccalaureate C / Bilingual High School of Ngaoundéré, Cameroon.

September 2008 – July 2009

*Mathematics and Physics.*

Grade : **D+**

## INTERNSHIP AND SCHOLARSHIP

### AUF – Mathinbio Doctoral College / the National Institute for Research in Digital Science and Technology (Inria), France.

January 2022 – March 2022

### ERASMUS + / The University of Bremen, Germany.

May 2021 – July 2021

### Intra ACP - ERMIT Project / The University Cheikh Anta Diop of Dakar, Senegal.

December 2018 – December 2019

## NETWORK AND MEMBERSHIP

### Reviewer for scientific journals (see [Web of science's account](#)).

*IEEE Internet of Things Journal, IEEE GLOBECOM, EURASIP (Springer), Computer Communications (Elsevier), Applied Soft Computing (Elsevier), International Journal of Electronics and Communications (AEÜ-Elsevier), PeerJ Computer Science (PeerJ), etc.*

April 2019 – Today

### Responsible for monitoring training activities within the Association for the Promotion of Geomatics and Sustainable Development (AG2D), Ngaoundéré, Cameroon.

April 2018 – Today

### Google Developer Group's member (GDG) of Ngaoundéré, Cameroon.

April 2016 – January 2019

## SELECTED LIST OF PUBLICATIONS

### Journals (4)

- **A new fuzzy logic approach for reliable communications in wireless underground sensor networks**

<https://link.springer.com/article/10.1007/s11276-022-03008-7>

D. Wohwe Sambo, B. O. Yenke, A. Förster, J. Ndong, P. Dayang and I. Sarr

**Wireless Networks (Springer Nature)**, <https://doi.org/10.1007/s11276-022-03008-7>, 2022.

- **Combining Fuzzy Logic and K-Nearrest Neighbor Algorithm for Recommendation Systems**

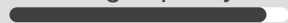
<http://www.mecspress.org/ijitcs/v13n4.html>

P. Dayang, C. Sepele Petsou and D. Wohwe Sambo

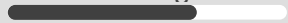
**International Journal of Information Technology and Computer Science (IJITCS)**, volume 13, number 4, pp. 1 – 16, 2021.

## GENERAL SKILLS

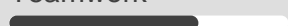
Learning capacity



Stress management



Teamwork



Supervision of students



## LANGUAGES

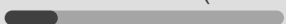
French: Good (Fluent)



English: Fairly good (casual)



German: Poor (seldom)



- **Wireless Underground Sensor Networks Path Loss Model for Precision Agriculture (WUSN-PLM)**  
<https://ieeexplore.ieee.org/abstract/document/8964471/>  
D. Wohwe Sambo, A. Förster, B. O. Yenke, I. Sarr, B. Gueye and P. Dayang.  
*IEEE Sensors Journal*, volume 20, number 10, pp. 5298 – 5313, 2020.
- **Optimized Clustering Algorithms for Large Wireless Sensor Networks: A Review**  
<https://www.mdpi.com/1424-8220/19/2/322>  
D. Wohwe Sambo, B. O. Yenke, A. Förster and P. Dayang.  
*Sensors (MDPI)*, volume 19, number 2, pp. 1–27, 2019.

## International Conference (1)

- **A new approach for path loss prediction in wireless underground sensor networks**  
<https://ieeexplore.ieee.org/document/9000669>  
D. Wohwe Sambo, A. Förster, B. O. Yenke, and I. Sarr  
in *2019 IEEE 44th Local Computer Networks Symposium on Emerging Topics in Networking (LCN Symposium 2019)*, Osnabrück, Germany, 14 – 17th October 2019

## TRAININGS AND WORKSHOPS ATTENDED

**AIMS-Cameroon Mathematics and its Applications Meeting (ACMAM), Limbé, Cameroon.**

12 – 14 January 2022

**2<sup>nd</sup> Mathinbio doctoral college meeting (AUF), Catholic University of Central Africa (Ekounou campus), Yaoundé, Cameroon.**

6 – 10 December 2021

**1<sup>st</sup> International Conference Local Resource Exploitation (LOREXP), Ngaoundéré, Cameroon.**

20 – 23 April 2021

**1<sup>st</sup> Mathinbio doctoral college meeting (AUF), Catholic University of Central Africa (Nkolbisson campus), Yaoundé, Cameroon.**

26 – 30 October 2020

**9<sup>th</sup> Conference sur la Recherche en Informatique et ses Applications (CNRIA), Saint-Louis, Senegal.**

25 – 28 April 2019

## REFERENCES

- **Anna FÖRSTER** – [anna.foerster@uni-bremen.de](mailto:anna.foerster@uni-bremen.de)  
(+49) 421 21862383  
Professor, Department of Sustainable Communication Networks, the University of Bremen, Germany.
- **Idrissa SARR** – [idrissa.sarr@ucad.edu.sn](mailto:idrissa.sarr@ucad.edu.sn)  
(+221) 77 626 82 31  
Professor, Department of Mathematics and Computer Science, the University Cheikh Anta Diop of Dakar, Senegal.
- **Blaise Omer YENKE** – [boyenke@univ-ndere.cm](mailto:boyenke@univ-ndere.cm)  
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Associate Professor, Department of Computer Engineering, the University Institute of Technology of Ngaoundéré, Cameroon.
- **Paul DAYANG** – [pdayang@univ-ndere.cm](mailto:pdayang@univ-ndere.cm)  
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