Damien WOHWE SAMBO
Ph.D. in Computer Engineering

Current position: Postdoc in computer engineering
Research field: IoT

WORK EXPERIENCE

- **Centrale Lille, France | Tutorial work in Computer Science**
  November 2022 – December 2022
  - Industrial Internet of Things (M2).

- **IMT Nord Europe, France | Lecturer in Computer Science**
  November 2022 – December 2022
  - Wireless Sensor Networks (WSN) (M2-ROC).

- **The University of Lille, France | Lecturer in Computer Science**
  October 2022 – Today
  - Wireless Sensor Networks (WSN) (M2-IoT).

- **FUN Team, Inria Lille Europe-Nord, France | PostDoct researcher (Current position)**
  June 2022 – Today

- **The University Institute of Technology of Ngaoundéré | Lecturer in Computer Science**
  October 2020 – May 2022
  - 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 | Lecturer in Computer Science**
  September 2018 – May 2022
  - Introduction to Computer Science (L1MA).
  - Web Application Engineering (L3IN).
  - Datawarehouse (M1IN).

- **Analysis and treatment of statistical data | Trainer**
  April 2018 – May 2022
  - Getting started with the software IBM SPSS.
  - Processing and interpretation of survey data.

- **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)**

ABOUT ME

I am post doctoral researcher in Computer Engineering with FUN Team under the supervision of DR Nathalie Mitton at Inria Lille Europe-Nord Research Center in France. Since July 2021, I am a Ph.D. holder in Computer engineering under the supervision of Prof. Anna Förster from the University of Bremen in Germany. 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 research interest concerns the energy efficiency, and reliability of the Internet of Things applications and the related wireless communication technologies.

🌐 https://wsdamieno.github.io/Site_perso/#home

CONTACT

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▷ Damien WOHWE SAMBO

in Damien Wohwe Sambo

PROGRAMMING SKILLS

C

C++

Matlab

Python

PHP, MySQL

HTML, CSS / Bootstrap

DIGITAL SKILLS

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

■ **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)

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

October 2009 – July 2012

Computer's network and Architecture (AR).
Grade : **C+** (1st)

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

◆ **Organization of scientific events**
Organizing chair: IEEE Workshop LS-NoT 2023 *part of* IEEE DCOSS-IoT 2023
TCP member: ANT 2023, AlgoTel & CoRes 2023, CNRIA 2023
Septembre 2022 – Today

◆ **Reviewer for scientific journals (***see* Web of science's account**).**
IEEE Internet of Things Journal, IEEE Sensors Journal, IEEE GLOBECOM, PerCom 2023, EURASIP (Springer), Computer Communications (Elsevier), Applied Soft Computing (Elsevier), Internation 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

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 fo Recommendation Systems**
http://www.mecs-press.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.*
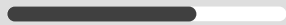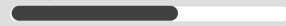
GENERAL SKILLS

Learning capacity
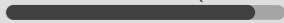
Stress management

Teamwork

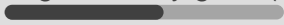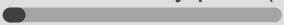Supervision of students

LANGUAGES

French: Good (Fluent)

English: Fairly good (casual)

German: Very poor (beginner)

- **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

- **Journée LPWAN 2022, Institut de Recherche d'Informatique de Toulouse (IRIT), Toulouse, France.**
  7 – 8 July 2022

- **AIMS-Cameroon Mathematics and its Applications Meeting (ACMAM), Limbé, Cameroon.**
  12 – 14 January 2022

- **2nd Mathinbio doctoral college meeting (AUF), Catholic University of Central Africa (Ekounou campus), Yaoundé, Cameroon.**
  6 – 10 December 2021

- **1st International Conference Local Resource Exploiatation (LOREXP), Ngaoundéré, Cameroon.**
  20 – 23 April 2021

- **1st Mathinbio doctoral college meeting (AUF), Catholic University of Central Africa (Nkolbisson campus), Yaoundé, Cameroon.**
  26 – 30 October 2020

- **9th ConfereNce sur la Recherche en Informatique et ses Applications (CNRIA), Saint-Louis, Senegal.**
  25 – 28 April 2019

REFERENCES

- **Nathalie MITTON** – nathalie.mitton@inria.fr
  (+33) 630 70 36 94
  DR (head of the research group), FUN research group, Inria, France.

- **Anna FÖRSTER** – anna.foerster@uni-bremen.de
  (+49) 421 21862383
  Professor, Department of Sustainable Communication Networks, the University of Bremen, Germany.