

# Olatunde Murana

PhD student  
Institute Mines Telecom Nord Europe (IMT Nord Europe)  
Centre for Education, Research & Innovation in  
Energy & Environment (CERI-EE)

LinkedIn: Olatunde Murana  
Email: olatunde.murana@imt-nord-europe.fr  
Phone: +33745721076  
Address: Lille, France

## Education

- 2022-Present Institute Mines Telecom Nord Europe (IMT Nord Europe)**  
Understanding air masses from anthropogenic and biogenic origin in Paris and Brazil  
Research in collaboration with field campaign projects within France and Brazil.
- 2020-2022 International Master of Science in Environmental Technology and Engineering (IMETE)**  
Master's thesis: Evaluation of dispersion model performance in short range prediction of air pollutant levels. Research in collaboration with Czech Hydrometeorological Institute (CHMI)
- 2014-2018 University of Abuja**

## Work and Research Experience

### Biogenic Emissions Chemistry & Impact in the Metropolitan Area of Sao Paulo (BIOMASP)

Field Campaign

April 2023 – Present

- VOC and organic aerosol characterisation using CHARON PTRMS
- Monitoring and data analysis
- Intercomparison of organic aerosol characterisation between CHARON PTRMS & ACSM
- Prospective chamber experiments and potential aerosol mass (PAM) chamber experiments

### Czech Hydrometeorological Institute (CHMI)

Prague, Czech Republic

Thesis Project

February 2022 – July 2022

- Review existing dispersion models in Europe
- Long/short term dispersion modelling in Prague metropolis
- Performance evaluation of ADMS Urban module configurations
- ADMS Urban model comparison with GRAL model

### Ekoinwentyka sp. z. o. o.

Ruda, Slaski. Poland

Graduate Research Intern

July 2021 – September 2021

- Treatment of VOCs and odours with Compact Trickling Biofilter Bioreactor (CTBB)
- Maintenance and monitoring of a pilot scale CTBB
- Determination of tolerance levels in different microorganisms
- Economic assessment of different abatement technologies

## Publications

- Van Minh Duong, **Olatunde Olawale Murana** (2023). Comparative assessment of ground-level air quality in the metropolitan area of Prague using local street canyon modelling, *Building and Environment*, Volume 236, 2023, 110293, ISSN 0360-1323, <https://doi.org/10.1016/j.buildenv.2023.110293>
- Atanda T.A, **Murana O.O**, Tijani O.J, Adeyemi V.A. (2019). Assessment of Heavy metals content in African Giant Rat (*Cricetomys gambianus*). *International Research Journal of Pure and Applied Chemistry*. 19(4): 1-8, 2019; Article no.IRJPAC.50298. DOI:10.9734/IRJPAC/2019/v19i430121
- Gabriel A.F, **Murana O.O**, Sadam A.A, Babalola S.A. (2018). Proximate and heavy metal composition studies of *Chrysophyllum albidum* seed cotyledons as a possible animal feed additive. *Direct Research Journal of Agriculture and food science*, Volume 4 (2), pp. 22-26. <https://doi.org/10.26765/DRJBB.2018.0951>
- Akin-Osanaiye B.C, Gabriel A.F, Salau T.O, **Murana O.O**. (2018). *Chrysophyllum albidum* seed as an additive in agricultural feed and potent antimicrobial. *Direct Research Journal of Agriculture and food science*, Volume 6 (5), pp. 107-113. <https://doi.org/10.26765/DRJAFS.2018.8369>

## Academic Projects

- Carolina Ramírez-Romero<sup>1,2</sup>, Olatunde Murana<sup>1</sup>, Christopher Pöhlker<sup>2</sup>, Sébastien Dusanter<sup>1</sup>, Stéphane

Sauvage<sup>1</sup>, Marina Jamar<sup>1</sup>, and Joel F. de Brito<sup>1</sup>. Laboratory characterization of SOA tracers from biogenic precursors using a Proton Transfer Reaction Mass Spectrometry coupled to a CHARON inlet. <sup>1</sup> IMT Lille Douai, Institut Mines-Télécom, Université de Lille, Centre for Energy and Environment, 59000 Lille, France. <sup>2</sup> Multiphase Chemistry Department, Max Planck Institute for Chemistry, 55128 Mainz, Germany

- Murana. O., Arshad. R., Reiner. A., Godi. T. (2021) Design exercise for a dairy wastewater treatment plant. Module 10, Ecotechnologies, IHE Delft Institute for Water Education, The Netherlands
- Murana, O. O., Jaeger, E., Babalola, I., Mebrat, W.K., Amigeita, S., Eldon R. Rene (2021) Opportunities for creating an eco-industrial park in the agricultural sector: Perspectives for resource recovery. Module 7, Cleaner Production, IHE Delft Institute for Water Education, The Netherlands

## Grants and awards

---

- International mobility grant, University of Lille (2023)
- Erasmus mundus scholarship 2020-2022
- Best Graduating Student 2016/2017 academic session in the Department of Chemistry, University of Abuja

## Conference

---

- Paper presentation academic project titled “Opportunities for creating an eco-industrial park in the agricultural sector: Perspectives for resource recovery” at International Conference on Advances in Sustainable Research for Energy and Environmental Management (ASREEM-2021)
- Participated in the 3<sup>rd</sup> International Conference “Bioreactors in the fight for clean air” by Ekoinwentyka, entrepreneurs (Plas.Co.Tech, Polska Sp. Z oo and waterworks), national, international representatives of science (Prof. Dr. Fernando Colmenares, Prof. Dr. Eldon R. Rene, Prof. Dr. Krzysztof Urbaniec; Prof. Krzysztof Barbusiński) and students representatives of IHE Delft. 27 July 2021

## Selected Certificates

---

- |  |      |
|--|------|
| • Air pollution cause and impacts                              | 2022 |
| • Observing systems for monitoring of atmospheric compositions | 2022 |
| • Ethic and scientific integrity                               | 2023 |

## Volunteering Services

---

### AIIESEC (2021- 2022)

A non-governmental organisation non-profit institute which develop youths as leaders through various tasks and facilitate development in communities.

### Clean-up All Delft (2021- 2022)

A non-governmental organisation whose initiative to clean delft municipal in Netherlands with the help of different volunteers.

### Sustainable Vibes (2019 – present)

A social enterprise redefining sustainability advocacy in Nigeria.

### National Youth Service Corps (2018 – 2019)

A scheme to promote nation building and development of the country.

## Software Competency

---

- MATLAB
- QGIS
- Microsoft Office
- Latex

## Skills

---

- |                               |                       |                              |
|-------------------------------|-----------------------|------------------------------|
| • Air Pollution Control       | Modelling             | Control Engineering          |
| • Wastewater Treatment        | Analytical Techniques | Quality Control & Monitoring |
| • Advance Waste Gas Treatment | Sampling              | Spatial Analysis             |
| • Data Analysis               | Process Engineering   | Researcher                   |