OGUEJIOFOR CHIBUEZE NNAMDI

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EDUCATION

University of Notre Dame (ND), Indiana, United States.
Doctorate (PhD) *in Civil & Environmental Engineering and Earth Sciences .*
2020 - Present.

International Centre for Theoretical Physics (ICTP), Italy.
Pre-PhD *Diploma in Earth System Physics.*
GPA: 3.30/4.00 (Highest GPA, ESP - Climate section)
Thesis: Local and Non-Local planetary boundary layer (PBL) schemes in WRF model - Impact on the Intensification of Tropical cyclone Idai (2019).
2019 - 2020.

The African Institute for Mathematical sciences, Rwanda.
Masters (MSc.) *in Mathematical sciences.*
Thesis: Simulating the influence of sea-surface-temperature (SST) on tropical cyclones over South-West Indian ocean, using the WRF climate model.
2018 - 2019.

The University of Lagos, Nigeria.
Bachelors (BSc. Honours) *in Geophysics.*
GPA: 4.74/5.00 (First Class - Overall best graduating student.)
Thesis: Integration of Amplitude Variation with Offset and Rock physics for Reservoir Fluid Discrimination (A case study of Jay Field, Onshore Niger Delta, Nigeria).
2012 - 2017.

RESEARCH INTERESTS

Atmospheric dynamics, Numerical modelling, Geophysical fluid dynamics, Machine learning, Turbulence and Parameterization of sub-grid scale processes.

TECHNICAL SKILLS

Operating Systems : UNIX/Linux, Windows, OSX.
Programming Languages : Python, Fortran90, Bash scripting, Matlab and SQL.
Climate Data Analysis : CDO, Ferret, GrADS, NCO/NCL.
Numerical Models : WRF, CM1.

PUBLICATIONS

† Chibueze N. Oguejiofor* and Babatunde J. Abiodun, 2019, *Simulating the influence of sea-surface-temperature (SST) on tropical cyclones over South-West Indian ocean, using the UEMS-WRF regional climate model*, preprint arXiv:1906.08298v1.

RESEARCH EXPERIENCE

‡ Local and Non-Local planetary boundary layer (PBL) schemes in WRF model - Impact on the Intensification of Tropical cyclone Idai (2019).
(Advisor: Graziano Guiliano).

‡ Simulating the influence of sea-surface-temperature on tropical cyclones over South-West Indian ocean, using the WRF model.
(Advisors: Professor Babatunde J. Abiodun and Dr. Izidine Pinto).

‡ The Integration of Amplitude Variation with Offset and Rock physics for reservoir characterization.
(Advisor: Dr. Sunday Oladele).

WORK EXPERIENCE

Remote Data Engineer (Indicina.) **Sep 2018 - Sep 2019.**

Building and optimizing machine learning models for large scale datasets. Feature engineering and database management.

Datascientist (KPMG.) **Feb - Aug 2018.**

Built and deployed a Churn model for Bank-X as a web application and suggest the Next-Best-Offer to be used for prevention of customer churn.

Datascience intern (One Finance ltd.) **Nov 2017 - Jan 2018.**

Text mining and NLP for feature engineering. Building machine learning models for credit scoring of customers from MixPanel data source.

Geophysicist intern (University of Lagos.) **Jul - Dec 2016.**

Research on hydrocarbon prospectivity of various geological basins including Niger Delta and West-Waha using RockDoc, Petrel and Hampson-Russel softwares. I represented my institution at the Imperial Barrell Award (IBA) as the team petrophysicist, coming first runner up.

CONFERENCES /WORKSHOPS

‡ Datascience Nigeria two-week Bootcamp on Machine learning.
Lagos, Nigeria. **2017.**

HONOURS /AWARDS

‡ UNESCO/IAEA Study Grant - International Centre for Theoretical Physics, Italy. **2019.**

‡ Mastercard Foundation scholarship award for Masters in Mathematical sciences. **2018.**

‡ HODs prize Overall Best graduating student, Department of Geosciences. **2018.**

‡ Imperial Barrel Award (IBA) First runner-up for African sub-region. **2017.**

‡ AAPG - L. Austin Weeks foundation scholarship grant. **2017.**

‡ 1st Runner up Data science Nigeria. (Machine learning competition) **2017.**

‡ TOTAL EP Sponsorship to the Nigerian Association of Petroleum Exploration international conference. **2016-2017.**

‡ MTN Foundation Scholarship for outstanding academic performance. **2013-2017.**