

CHIBUEZE NNAMDI OGUEJIOFOR

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South bend, Indiana, United States.

EDUCATION	<p>University of Notre Dame (ND), Indiana, United States. <i>Doctorate (PhD) in Civil & Environmental Engineering and Earth Sciences .</i> GPA: 3.50/4.00</p> <p style="text-align: right;">2020 - Present.</p> <p>International Centre for Theoretical Physics (ICTP), Italy. <i>Pre-PhD Diploma in Earth System Physics.</i> GPA: 3.30/4.00 (Highest GPA, ESP - Climate section) <i>Thesis: Local and Non-Local planetary boundary layer (PBL) schemes in WRF model - Impact on the Intensification of Tropical cyclone Idai (2019).</i></p> <p style="text-align: right;">2019 - 2020.</p> <p>The African Institute for Mathematical sciences, Rwanda. <i>Masters (MSc.) in Mathematical sciences.</i> <i>Thesis: Simulating the influence of sea-surface-temperature (SST) on tropical cyclones over South-West Indian ocean, using the WRF climate model.</i></p> <p style="text-align: right;">2018 - 2019.</p> <p>The University of Lagos, Nigeria. <i>Bachelors (BSc. Honours) in Geophysics.</i> GPA: 4.74/5.00 (First Class - Overall best graduating student.) <i>Thesis: Integration of Amplitude Variation with Offset and Rock physics for Reservoir Fluid Discrimination (A case study of Jay Field, Onshore Niger Delta, Nigeria).</i></p> <p style="text-align: right;">2012 - 2017.</p>
RESEARCH INTERESTS	Atmospheric dynamics, Numerical modelling, Geophysical fluid dynamics, Machine learning, Turbulence and Parameterization of sub-grid scale processes.
TECHNICAL SKILLS	<p>Operating Systems : UNIX/Linux, Windows, OSX.</p> <p>Programming Languages : Python, Fortran90, Bash scripting, Matlab and SQL.</p> <p>Climate Data Analysis : CDO, Ferret, GrADS, NCO/NCL.</p> <p>Numerical Models : WRF, CM1.</p>
PUBLICATIONS	† Chibueze N. Oguejiofor* and Babatunde J. Abiodun, 2019, <i>Simulating the influence of sea-surface-temperature (SST) on tropical cyclones over South-West Indian ocean, using the UEMS-WRF regional climate model</i> , preprint arXiv:1906.08298v1.
RESEARCH EXPERIENCE	<p>‡ Local and Non-Local planetary boundary layer (PBL) schemes in WRF model - Impact on the Intensification of Tropical cyclone Idai (2019). (Advisor: Graziano Guiliano).</p> <p>‡ 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).</p> <p>‡ The Integration of Amplitude Variation with Offset and Rock physics for reservoir characterization. (Advisor: Dr. Sunday Oladele).</p>

RELEVANT /COURSES	‡ Geophysical Fluid Dynamics, Atmospheric Dynamics, Ocean Dynamics, Earth Systems Modelling, Atmospheric Modelling and data analysis, Thermodynamics and Physics of the Atmosphere, Numerical Methods I and II.	
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.	
HONOURS /AWARDS	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.	
	‡ 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.