

CHIBUEZE NNAMDI OGUEJIOFOR

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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.)

2012 - 2017.

RESEARCH

Air-Sea interaction, hurricane dynamics, geostatistics & spatio-temporal modelling.

TECHNICAL SKILLS

Programming : Python, Fortran, R, Bash scripting, Matlab, SQL and MPI.

Climate Data Analysis : CDO, Ferret, GrADS, NCO/NCL.

Climate 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.

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

CONFERENCES

† Chibueze, N. Oguejiofor*, D. Richter, and C. Wainwright, 2021: Investigating the dependence of hurricane intensity on varying SST patterns using idealized model simulations. American Geophysical Union (AGU), Fall meeting, New Orleans.

† Chibueze, N. Oguejiofor*, D. Richter, and C. Wainwright, 2021: Investigating the dependence of hurricane intensity on varying SST patterns using idealized model simulations. 2021 Midwest Student Conference on Atmospheric Research (MSCAR), held virtually.

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.

**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.**