

# 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 INTERESTS

Air-Sea interaction, Numerical modelling and Hurricane dynamics.

## TECHNICAL SKILLS

**Programming Languages :** Python, Fortran, R, Bash scripting, Matlab, SQL and  
Intermediate skills in Message Passing Interface (MPI).  
**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.

† 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. 2021 Midwest Student Conference on Atmospheric Research (MSCAR), held virtually.

## RELEVANT /COURSES

‡ Geophysical Fluid Dynamics, Atmospheric Dynamics, Ocean Dynamics,  
Earth Systems Modelling, Turbulence modelling, 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.

### 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.**