

Chibueze Nnamdi Oguejiofor

PhD. Researcher, Environmental Fluid Dynamics.



Personal website



Github



LinkedIn



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EXPERIENCE

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH (NCAR) | VISITING SCIENTIST |

AUG 2022 | COLORADO, USA.

- Incoming advanced study (ASP) graduate visitor. (Host: Dr. George Bryan)
- Research focus: LES of hurricane boundary layer forced with spatial heterogeneity in surface processes.

INDICINA LTD. | DATA ENGINEER | SEPT. 2018 – SEPT. 2019 | LAGOS, NIGERIA.

- Building and optimizing machine learning models for large fintech dataset.

KPMG LTD. | DATASCIENCE INTERN | FEB. 2018 – AUG. 2018 | LAGOS, NIGERIA.

- Built and deployed a Churn model web application for prediction of default rate.

CARBON LTD. | DATASCIENCE INTERN | NOV. 2017 – JAN. 2018 | LAGOS, NIGERIA.

RESEARCH INTEREST

Boundary layer meteorology, air-sea interaction & hurricane dynamics, geostatistics and spatio-temporal modelling, numerical weather prediction, large eddy simulation (LES).

PAPERS AND CONFERENCES

PAPERS

- Chibueze N. Oguejiofor* and Graziano Guiliiani, 2020, Local and Non-Local planetary boundary layer (PBL) schemes in WRF model -Impact on the Intensification of Tropical cyclone Idai (preprint - thesis).
- 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).

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

AWARDS AND LEADERSHIP

- NCAR Fellowship - Advanced Study Program (ASP) graduate visitor, **2022**.
- American Meteorological Society (AMS) air-sea interaction committee, **2022 - Present**.
- UNESCO/IAEA Study Grant - International Centre for Theoretical Physics, **2019**.
- AAPG - L. Austin Weeks foundation scholarship grant, **2017**.
- MTN Foundation Scholarship for outstanding academic performance, **2012 - 2017**.

EDUCATION

UNIVERSITY OF NOTRE DAME

Doctorate (PhD) - Civil and Environmental Engineering.
Aug 2020 - Present | Indiana, USA.

INTERNATIONAL CENTER FOR THEORETICAL PHYSICS (ICTP)

Postgraduate (Pre-PhD) in Earth Systems Physics.
Aug 2020 | Trieste, Italy.

AFRICAN INSTITUTE FOR MATHEMATICAL SCIENCES (AIMS)

Masters (MSc.) in Mathematical Sciences.
June 2019 | Kigali, Rwanda.

UNIVERSITY OF LAGOS

Bachelor's (BSc.) in Geosciences (Geophysics major).

Aug 2017 | Lagos, Nigeria.

CGPA: 4.74 / 5.0

HOD's prize - Overall best graduating student (Highest GPA, Top 1%)

SKILLS

PROGRAMMING

Proficient:

Python • FORTRAN • Bash • MATLAB • SQL • R

Experienced:

CDO • NCL/NCO • GRADS • Ferret

Familiar:

MPI (HPC) • Git • Cloud (AWS Certified)

LIBRARIES/Frameworks

Numpy/Scipy stack • Pandas • Tensorflow/Keras • xarray

CLIMATE MODELS

WRF • NCAR's CM1