**OLATUNBOSUN AYETAN**

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As a dedicated Data Scientist, I am passionate about extracting valuable insights and predictive patterns from complex datasets to drive data-informed decisions. With a foundation in environmental sciences and over 5 years of experience, I possess a unique blend of domain expertise and data analytics skills. I have a proven track record of leveraging statistical analysis, machine learning, and data visualization techniques to tackle real-world problems in various industries. My ability to communicate data-driven solutions effectively makes me an asset to any organization seeking to harness the power of data.

# EDUCATION

**Diploma in Data Science July 2023 – October 2023**

Lighthouse Labs

**PhD Candidate in Environmental Sciences September 2020 - Present**

University of Guelph

**Master of Soil and Water Systems August 2018 - September 2019**

University of British Columbia- Vancouver, BC

**Bachelor of Agricultural Technology (First Class), Crop Soil and Pest**

**Management August 2012 - December 2017**

Federal University of Technology Akure, Ondo State, Nigeria.

**RELEVANT WORK EXPERIENCE**

# Climate Change Research Associate

# OCES Wood Buffalo Science Team, Parks Canada.

# September 2022 - Present

* Conduct data-driven research to assess the impacts of climate change on Wood Buffalo National Park’s Outstanding Universal Values.
* Develop data-driven communication products, including climate projection maps and reports, to convey climate change findings to diverse stakeholders.
* Utilize advanced statistical techniques and data modeling to conduct climate modeling for Canadian National Parks, employing tools like ClimateNA and ArcGIS Pro.
* Perform data-intensive climate change vulnerability assessments and adaptation planning for various plant and animal species within Wood Buffalo National Park.
* Collaborate closely with the Wood Buffalo Science Team on data collection, analysis, and general research activities, supporting the Parks Canada Agency's sustainability efforts.

**Teaching Assistant**

ENVS 1060 (DE01) (Discovering Planet Earth) (University of Guelph) **Winter 2023**

ENVS 2060/AGR 2320 (Soil Science/ Soil in Agroecosystems) (University of Guelph)

**Fall 2021**

**Fall 2022**

* Mentored students on data gathering, interpretation, and evaluation of environmental and agricultural datasets.
* Developed educational materials for laboratory tutorial sessions and facilitated the use of laboratory technologies to learn soil scientific theories and principles.
* Reinforced students understanding of soil science concepts discussed in the lecture through observations, selected exercises and assigned readings.
* Maintained regular contact with students by providing answers to enquiries related to course contents through emails, zoom, and Teams meetings.
* Marked and graded laboratory assignments and final exams, and received positive feedback from students, with more than 80% of them willing to take more advanced soil science courses during their degree.

**Graduate Research Assistant**

Soil Imaging Lab, School of Environmental Sciences (University of Guelph) **September 2020 - Present**

* Designed and executed data-driven research projects focused on assessing and quantifying the structural stability of agricultural soil in Ontario.
* Planned and conducted field and laboratory experiments, collecting extensive soil data for advanced analysis.
* Employed advanced statistical tools, including SAS and R, to analyze soil data, test research hypotheses, and extract valuable insights.
* Utilized cutting-edge X-ray computed tomography to scan and process intact soil core images for in-depth analysis.
* Authored and published research papers, reports, and books in prestigious journals, contributing to the field of data-driven soil science.
* Presented research findings at conferences and meetings, fostering collaboration with researchers worldwide to address soil structural degradation challenges.

**Graduate Research Assistant**

Land and water systems, Faculty of land and Food Systems (University of British Columbia)

**August 2018 - September 2019**

* Collaborated with farmers and stakeholders in the Whatcom Conservative Districts to identify and address soil and water-related challenges in agriculture.
* Conducted field assessments to determine the impact of land-use and land cover on water recharge potential.
* Applied geospatial and data analysis techniques to identify areas with high groundwater recharge potential to prevent waterlogging and downstream flooding.
* Developed and presented data-driven best management practices, contributing to policies aimed at improving soil quality in the North Lynden Watershed Improvement District.
* Created groundwater recharge maps integrated into local government spatial planning efforts in Whatcom County, Washington State, USA.
* Submitted comprehensive technical reports and published data-driven white papers, leveraging data to address agricultural and environmental challenges.

# AWARD

* OMAFRA Highly Qualified Personnel Scholar **2021**
* Mastercard Foundation Graduate Scholar **2018**

**CERTIFICATION / TRAINING**

* MobilizeU (Knowledge Mobilization and Transfer), Research Impact Canada. **2022**
* Instructional Skills Workshop, University of British Columbia **2019**

**COMMUNITY SERVICE**

* Members Representative, Graduate Student Union University of Guelph **May** **2022 - Present**
* Committee Member, OAC Equity Diversity and Inclusion Working Group **October 2020 - Present**
* Moderator at the Genome Canada Panel Discussion: Application of Genomics in Society.

**November 2021**