**OLADIPO DAYO GEORGE**

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**EDUCATION**

**PhD. Environmental Engineering 2022 – 2026 (expected)**

Rensselaer Polytechnic Institute, Troy, USA

***Research Areas:***Water Treatment Technologies, Synthetic Membrane Processes, Environmental Remediation

***Advisor:***Dr James Kilduff

**MSc, Soil and Environmental Sciences 2021**

The University of Chinese Academy of Sciences, Beijing, China

***Thesis:*** Soil Nitrate Leaching and Greenhouse Gas emissions from a Wheat-Maize Ecosystem under Organic Amendments in Purple Soil

***Advisor:*** Professor Bo Zhu

**Bachelor of Science, Chemistry 2016**

University of Ilorin, Ilorin, Nigeria

***Thesis:*** Physicochemical Characterization of Organic Matter Transformation during the Co-composting of *Prosposis africana* Shell with Cow Dung

**RESEARCH EXPERIENCE**

**Graduate Research Assistant,** Yanting Agro-ecological Experimental Station of Purple Soil, Chinese Ecosystem Research Network Sep 2019 – Dec 2021

Worked on nutrient cycling in organically amended soils, with a focus on carbon and nitrogen transformations and their impact on greenhouse gas emissions in the Sichuan basin region of Southwest China.

* Investigated the interactive effects of combining different organic and mineral nutrient sources on soil organic carbon and aggregate dynamics agroecological environments.
* Investigated the relationship between organic resource quality and mineral nutrient sources and how this mediates aggregate turnover, controlling nitrogen and carbon cycling.
* Assessed crop productivity and the yield-scaled global warming potential of different sources of organic amendments combined with mineral nitrogen in purple soil agroecosystems around the Sichuan basin in Southwest China.
* Investigated how different sources of organic amendments contribute to nitrate leaching in sloping croplands.

**TEACHING**

**Graduate Teaching Assistant**, School of Engineering, Rensselaer Polytechnic Institute 2015 – 2017

Courses taught: Introduction to Environmental Engineering (ENVE 2110), Water Resource Engineering (CIVL 2060), Introduction to Engineering Design (ENGR 2050), and Engineering Economics (ENGR 4760).

* Tutor, grade assignments and exams, and organize lab sessions.

**Tutor,** Supreme Success Educational Consults, Ilorin, Nigeria 2015 – 2017

Courses taught: AP Physics and Physical & Organic Chemistry

* Tutored and graded assignments and exams.

**AWARDS AND HONORS**

* 2020 International Arctic Winter School Scholarship, IAS-HIT-Winter2020
* 2020 Best Presentation, IAS-HIT-Winter2020
* 2020 Distinguished Student Award, IAS-HIT-Winter2020
* 2019 Cornell Climate Fellowship (Fall 2019 Cohort), Civic Ecology Lab, Cornell University
* 2019 Tsinghua University International Summer Scholarship
* 2018 Belt and Road Master Fellowship at the Chinese Academy of Sciences
* 2018 Turkiye Buslari Fellowship
* 2016 First Place, Faculty of Physical Science Quiz Competition

**TECHNICAL SKILLS**

Soil& Plant nutrient analysis, SPSS, Python, Sigmaplot, Tableau, ChemStation

**CERTIFICATIONS AND TRAINING**

* **Green Technology**, CAS-TWAS Center of Excellence for Green Technology, Institute of Process Engineering, Chinese Academy of Sciences, Beijing, China. 2020
* **Energy Transition Innovation Towards a Low Carbon Future**, IFP School, Rueil-Malmaison, France.
* **Tsinghua University Certificate Program on Innovation and Entrepreneurship**, School of Software, Tsinghua University, Beijing, China.
* **Municipal Solid Waste Management in Developing Countries**, Swiss Federal Institute of Aquatic Science and Technology

**LEADERSHIP/COMMUNITY ENGAGEMENT**

**Mentor**, BootCamp X (Cohort II) January 2020 – March 2020

**Member**, University of Ilorin Student Senate Council January 2020 – present

**Secretary**, OMG Computer Science and Engineering Research Group, OAAD January 2021-Present

**Hall Representative**, Lagos Hostel, University of Ilorin January 2019 – July 2021

**General Secretary**, Supreme Success Foundations January 2019 – July 2021

**WORKING PAPER(S)**

**Oladipo, D. G**., Wei, K., Hu, L., Medaiyese, A., Bah, H., Gbadegesin, L. A., & Zhu, B. (2021). Short-term assessment of nitrous oxide and methane emissions on a crop yield basis in response to different organic amendment types in the Sichuan basin. Atmosphere, 12(9), 1104.

Wang, J., Zhao, X., Wei, K., **Oladipo, D. G.**, Yuan, C., Jin, B., ... & Zhu, B. (2022). The relationships of bacterial-feeding nematodes, phoD-harboring bacteria and alkaline phosphomonoesterase activity under the combined application of organic and inorganic fertilizers in an alkaline soil. Applied Soil Ecology, 179, 104595.

Bah, H., **Oladipo D. G**., Simon K, Zhu B (in preparation) (2022) Carbon and nitrogen mineralization kinetics from organically-amended upland purplish soil.

**PROFESSIONAL MEMBERSHIP**

* Chinese Chemical Society 2022
* American Chemical Society 2022

**EXTRACURRICULARS**

**Member**, Uncle Sam Toastmasters Club, Troy NY