**EDUCATION**

**University of Delaware***Newark, DE.*  August 2025 - Present

*Master of Science* inGeography and Spatial Sciences

* Advisor: Dr. Pinki Mondal

**University of Maryland,***College Park, MD.* **|** GPA: 3.864  August 2020 - May 2024

*Bachelor of Science* inEnvironmental Science and Policy: Global Environmental Change

Minor in Atmospheric Science

* Academic Honors: *Banneker/Key Scholar 2020, NOAA Ernest F. Hollings Scholar* 2023

**RESEARCH EXPERIENCE**

**EASEL Lab/Department of Geography and Spatial Sciences,** University of Delaware August 2025 - Present

*Graduate Research Intern*

* Assisting on projects related to the use of Earth Observation for climate change impact analysis

**NASA Harvest/Xylem Lab*,*** *University of Maryland*March 2021 - August 2024

*Research Intern*

* Aided in database analysis, development of machine learning yield forecasting tool, rangeland monitoring, and research on drivers of Earth Observations sector growth in Africa for food security
* Helped facilitate capacity building trainings with NASA SERVIR in Dakar, SN and Lusaka, ZM

**National Operations Center,** *National Weather Service* May 2023 - August 2023

*NOAA Hollings Intern*

* Introduction to Services Across the NWS Operations Division, featuring decision support services to intergovernmental agency partners
* Prepared and delivered morning briefing to NWS Leadership

**Gemstone Honors Program,** *University of Maryland* March 2021 - May 2024

* *Team Thesis Research:*Team MARINE- Modification of a Nile Red Staining Method for Microplastic Detection in Environmental Media

**Environmental Science and Policy Capstone Project**, *University of Maryland* September 2023 *-* December 2023

* Team project on CAFO environmental health impacts on MD communities for Chesapeake Legal Alliance

**LEADERSHIP EXPERIENCE m**

**Student Government Association Committee for Sustainability** September 2020 - May 2023

*Director*

* Facilitator between university administration and student interest, allotted over $10,000 from Student Activities budget for related initiatives, and helped manage Sustainability Mini-Grant Funds applications from students/staff
* Co-founded inaugural Student Sustainability Summit at UMD with local in-person and internationally-available online programming over 2 days. Awarded 2 grants totaling $15,000.
* Recognized as Director of the Year for UMD Student Government Association 2022-2023

**UMCP Undergraduate Climate Finance Competition** November 2022 - May 2023

* Awarded 1st Place for interdisciplinary team project on climatic/financial aspects of solar array installation

**Gemstone Honors Program,** *University of Maryland* August 2022 - December 2022

* *TA* for GEMS100- Freshman introductory course on topics in research

**Department of Geographical Sciences**, *University of Maryland* January 2024 - May 2024

* Grader for GEOG201 - Introduction to Physical Geography (Winter 2024)
* Curriculum Development Assistant for GEOG422 - Changing Geographies of Sub-Saharan Africa (Spring 2024)

**OTHER PROFESSIONAL EXPERIENCE m**

**Southeast Louisiana Legal Services via Avodah Jewish Service Corps** September 2024 - August 2025

*Tenant Advocate/Fellow*

* Assisted in intake for clients seeking defense against eviction; responded to general helpline for tenants’ issues

**Camp Walden New York** June 2021 - August 2021

*Lifeguard, Sailing Instructor, and Camp Counselor*

**VOLUNTEER OPPORTUNITIES m**

**STEM Nola / STEM Global Action** February 2025 - July 2025

* Lead programming for K-12 students to engage with engineering and introductory level principles of science

**Coalition to Restore Coastal Louisiana** February 2025 - July 2025

* Engaged in volunteer activities utilizing recycling and repurposing for materials for coastal restoration projects along Louisiana’s Gulf Coast

**PUBLICATIONS m**

**Journal Articles**

* Nakalembe, C., Deveraux, T., and Ginsburg, A. (2024). [Whose Priorities? Examining Inequities in Earth Observation Advancements Across Africa](https://doi.org/10.1029/2023CN000220). *Perspectives of Earth and Space Scientists.*
* [In Preparation] Phalke, A., Anderson, E., Limaye, A., Kipkemboi, B., Quintero, D., Mishra, V., Nakalembe, C., Davenport, F., Ginsburg A., and D. Lee. Decision-making Framework for Yield Model Output through Comparing Machine Learning and Process Based Models in Kenya.

**Conference Proceedings**

* Annual Meetings for American Association of Geographers (2/2022) - Virtual Poster Session
  + Using Machine Learning and Earth Observation to Forecast Crop Yields in Kenya
* American Geophysical Union (12/2022) - Poster Session
  + Using Machine Learning and Earth Observation to Forecast Crop Yields in Kenya
* American Geographical Society (11/2023) - [Virtual Lightning Talk](https://youtu.be/h3ycFz1JW8c?si=RZxd9IhReeCMpGuQ)
  + Cultivated, grazed or wild?: Integrated Satellite Analysis for the Coupling of Cropland and Rangeland Dynamics
* SETAC Chesapeake Region (4/2024) - Poster Session
  + Modification of a Nile Red Staining Method for Microplastic Detection in Environmental Media

**SOFTWARE EXPERIENCE**

**Advanced:** Windows and Mac operating systems, Microsoft Office Suite, Google Cloud Suite

**Intermediate**: Python, ArcGIS, QGIS, Google Earth Engine, Linux operating systems, R (ggplot2)

**Beginner:** MATLAB, Git, Adobe Creative Suite, SPSS, FORTRAN, HTML

Interests: Music, Sci-fi, marching bands, travel, cycling, EVs