

EDUCATION

- **University of Delaware** Newark,DE
PhD in Geography and Spatial Sciences September 2020 - ongoing
- **University of Delaware** Newark, DE
MS in Geological Sciences August 2018 - August 2020
- **Oberlin College** Oberlin,OH
BA in Geology and Economics August 2014 - May 2018

RESEARCH EXPERIENCE

- **University of Delaware** Newark,DE
Graduate Research Assistant August 2018 - August 2020
 - Analysed a high-resolution hydrological dataset using Excel and MatLab to understand solute transport processes controlling the hydrochemistry of the Okavango Delta
 - Characterised spatiotemporal solute concentration variations using concentration-discharge metrics to investigate the solute and flow regime of an arid endorheic basin
 - Conducted water sampling for physicochemical parameters like temperature, conductivity and pH, as well as chemical parameters like silica, in addition to water sample collections for anion and cation analysis
- **University of Arizona** Tucson,AZ
Paleoclimate Lab technician June 2017 - August 2017
 - Investigated paleodroughts and aridity in the Peruvian Amazon rainforest and presented a scientific poster on the utility of paleocarbon for past climate, vegetation and land use reconstructions
 - Compiled and analysed a lake sediment core elemental data from a micro-XRF scanner and performed data analysis and visualization using MatLab CharAnalysis software
 - Maintained a lab blog (uapaleoclimate.blogspot.com) documenting summer research, profiling lab technicians and graduate students in the paleoclimate reconstructions lab

TEACHING EXPERIENCE

- **University of Delaware** Newark,DE
Graduate Teaching Assistant(TA) August 2018 - August 2020
 - Organized and led short local field trips exploring the geology of Delaware, mapping flood hazard along White Clay Creek and investigating climate change impacts in Northern Delaware
 - Prepared and presented lab lectures, and graded assignments, tests and quizzes in order to evaluate student performance
 - Facilitated classroom discussions and interpreted lab information and instructions to students during labs on topics ranging from fossils to sedimentary rock identification

LABORATORY EXPERIENCE

- **Sediment core preparation and sub-sampling**
 - Cutting, impregnating and washing for macroscopic charcoal analysis
- **Data Analysis**
 - MatLab, FORTRAN, ArcGIS, Microsoft Excel

PRESENTATION ABSTRACTS

- **Oromeng, K.V.**, Ramatlapeng, G.J., Atekwana, E.A, Molwalefhe, L. "Solute Transport In a Semi-Arid Endorheic Basin, Okavango Delta, Botswana: A Time Series Investigation", Geological Society of America (GSA) Annual Conference, Abstracts with Programs. 51, No. 5 September 2019
- **Oromeng, K.V.**, Ramatlapeng, G.J., Atekwana, E.A, Molwalefhe, L. "Processes controlling the spatiotemporal variations of water and solutes across the Okavango Delta in semi-arid northwest Botswana", DENIN 4th Environmental Symposium, February 2019
- **Oromeng, K.V.**, Buckle-Mitchell, N., Overpeck, J.T., Bush, M. "The Utility of Macroscopic Charcoal Analysis as a Paleoclimate Proxy", National Association of Black Geoscientists (NABG) 36th Annual Technical Conference, Meeting Program and Abstracts, September 2017

SERVICE AND LEADERSHIP

- **Secretary**, University of Delaware Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS), 2019 - 2020
- **Peer Mentor**, University of Delaware International Buddy (iBuddy), 2019 - 2020
- **Student Event Planner and Volunteer**, DENIN Grand Challenges in Water Sustainability Symposium III- "Water Management and Policy: Local and Global Perspectives", 2019
- **Bonner Scholar '18**, Oberlin Public Library- Assistant Children's Librarian, Summer Reading program coordinator and Children's Arts and Science programs 2015 - 2018

PROFESSIONAL AFFILIATIONS

- Geological Society of America (GSA)
- National Association of Black Geoscientists (NABG)
- American Geophysical Union (AGU)
- Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)
- Sigma Xi