

Key Qualifications

- Well-organized and proficient in project management
- Willing to utilize cross-cutting tools and interdisciplinary solutions to research and solve problems
- Strong written/oral science communication and public speaking skills
- Flexible to both independent and collaborative assignments
- Responsive, reliable, and calm under pressure in the workplace
- Highly committed to diversity, equity, and inclusion (DEI) and an uplifting work environment

Professional Employment History

Research

2021-present

University of Michigan - Dept. of Earth & Environmental Sciences

Analyzed isotope data ($\delta^{13}\text{C}$, $\delta^{18}\text{O}$, Δ_{47}/Δ_{48}) in modern and fossil seashells to reconstruct paleoclimate (i.e., sea surface temperatures), paleoceanography (i.e., ice sheet behavior, ocean circulation changes), paleophysiology (i.e., how they construct their shells).

2018-2021

Williams College - Dept. of Geosciences

Analyzed bulk sediment isotope data ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$) from the Bering Sea to reconstruct how the biological pump (i.e., how the ocean cycles carbon) changed across geologic time.

2018

Woods Hole Oceanographic Institution - Dept. of Marine Chemistry & Geochemistry

Analyzed weight%/ $\delta^{13}\text{C}/^{14}\text{C}$ in foraminiferal and coccolith calcite fractions from core top sediments to interpret dissolution trends and how they impact global carbon cycling.

Teaching

2024

University of Michigan's EARTH Camp - Staff Lead (Upper Peninsula, Ann Arbor, WY)

Ran field trips (e.g., UM Biological Station, museums, educational tours, national park hikes), introduced high school students from the metro-Detroit area to the geosciences.

2022-2023

University of Michigan's Dept. of Earth & Environmental Sciences

(1) Introduction to Environmental Science in the Rocky Mountain West (based at Camp Davis Field Station) - assisted students during field tours, created/led/graded lab and project assignments, taught lectures, organized demonstrations/activities during lectures.
(2) Introduction to Oceanography - graded problem sets and assignments, supervised lab experiments, organized interactive demonstrations during lecture, hosted office hours.

2021

Williams College's Dept. of Chemistry - Advanced Chemical Concepts (Gen. Chem II)

Attended/recorded in-person lectures, answered questions, graded weekly problem sets.

Education

2021-present

Ph.D. Earth and Environmental Sciences (5th-year)

University of Michigan - Ann Arbor

Awards & Distinctions: NSF Graduate Research Fellowship, Outstanding Graduate Student Instructor Award, Mark Robbins Innovative Teaching Award

2017-2021

B.A. Chemistry (Cum Laude), concentration in Maritime Studies (Highest Honors)

Williams College (& participant of the Williams-Mystic Maritime Studies Program)

Awards & Distinctions: Stephen H. Tyng Scholarship, Dennis W. Nixon Prize for Marine Policy, American Chemical Society Division of Analytical Chemistry Undergraduate Award, Class Musician Award, Sigma Xi Associate Member - Geosciences, Outstanding Teaching Assistant Award - Chemistry

Committee Leadership Experience & Related Outreach (University of Michigan)

2025-present	<i>GeoClub EBoard - Co-President</i>
2024-present	<i>Community Support Committee, Earth & Environmental Sciences</i> Assisted with development of initiatives to create a more welcoming environment in the department regarding community building, department climate, curriculum, etc.
2024	<i>University of Michigan's Museum of Natural History - Science Communication Fellow</i> Designed a family-friendly tabletop demonstration to showcase lab research on fossil seashells and presented the activity to audiences at local libraries, local museums, etc.
2023-2025	<i>GeoClub EBoard - Outreach & Career Development</i> Organized/led professional development workshops (e.g., Excel/R softwares, academic funding, Zotero, poster prep) & career panels to introduce students to geoscience careers.
2022-2025	<i>Michigan Geophysical Union (MGU) - Organizing Committee Member, 2025 Co-Chair</i> Organized a student-led geosciences research symposium. Responsibilities included: coordinating oral and poster presenters, assigning judges and distributing awards, organizing registration forms, booking/scheduling spaces for program events, etc.
2022-2024	<i>Center for Research on Learning & Teaching (CRLT)'s Foundational Course Initiative (FCI) - Team Member for restructuring EARTH 222/223: Introduction to Oceanography</i> Helped renovate the course through new innovations (e.g., 'GradeCraft') and interactive demonstrations, created supplemental resources (e.g., math 'toolkit', video tutorials), etc.

Selected Publications

In review	Quizon, A.A. , Petersen, S.V., deWinter, N.J., Vellekoop, J. Clumped isotope thermometry (Δ_{47}) measurements in marine gastropods suggest equilibrium precipitation.
In review	Winkelstern, I.Z., Petersen, S.V., Curran, H.A., Phillips, C., Quizon, A.A. , Glumac, B., Griffing, D. Cooling Climate Across Last Interglacial High Stands on El Salvador and Great Inagua, The Bahamas.
In prep	Quizon, A.A. , Gomes, L.D., VanDeVelde, J., Petersen, S.V. SEGaSOx (Sampling East and Gulf coast Salinity and Oxygen isotopes) - a comprehensive spatial and temporal dataset of salinity and seawater $\delta^{18}\text{O}$ measurements along the U.S. East Coast.
In prep	Quizon, A.A. , Petersen, S.V., Winkelstern, I.Z., Wehmiller, J.F. End Last-Interglacial transition and substantial ice sheet melt detected at Sankaty Head Cliff, Massachusetts.
In prep	Quizon, A.A. , Petersen, S.V., Scholz, S.R., et al. 'Vital' (disequilibrium) effects likely observed in turritellid gastropods with clumped isotopes - a case study with Mid-Miocene Climatic Optimum fossils from Colombia.
In prep	Quizon, A.A. , Gomes, L.D., Petersen, S.V. $\delta^{18}\text{O}_{\text{water}}$ measurements along the U.S. Eastern Seaboard - obstacle for paleotemperature reconstructions, opportunity for paleoceanography.
In prep	Quizon, A.A. , Petersen, S.V., Winkelstern, I.Z., Wehmiller, J.F. Marine Isotope Stage 5a (~80kya) aminostratigraphy, paleoclimate, and paleoceanography along the U.S. Eastern Seaboard.
2019	Subhas, A.V., McCorkle, D.C., Quizon, A. , McNichol, A.P., & Long M.H. (2019). Selective preservation of coccolith calcite in Ontong-Java Plateau sediments. <i>Paleoceanography & Paleoclimatology</i> , 34(12), 2141-2157.

Skills

Programming languages: R, Matlab, Python, Java, Mathematica.

Software: Microsoft Office (Word/Excel/PowerPoint), ArcGIS Pro, Adobe Illustrator, Canva.

Miscellaneous Volunteering

2023-present	Dexter Community Orchestra - Cellist.	2016-2017	Mount Sinai Hospital - Volunteer.
2010-2017	Tim Keyes Consort (Orchestra) - Cellist.	2014-2015	Liberty Science Center - Volunteer.