Alex A. Quizon

(848) 200-6282 • Ann Arbor, MI • aquizon@umich.edu

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

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Professional Employment History

Research

2021-present — **University of Michigan - Dept. of Earth & Environmental Sciences**
Analyzed isotope data ($\delta^{13}C$, $\delta^{18}O$, $\mathbf{\Delta}_{47}/\mathbf{\Delta}_{48}$) 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 ($\delta^{13}C$, $\delta^{15}N$) 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%/$\delta^{13}C$/^{14}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 **GeoClub EBoard - Co-President**

2024-present **Community Support Committee, Earth & Environmental Sciences**
Assisted with development of initiatives to create a more welcoming environment in the department regarding community building, department climate, curriculum, etc.

2024 University of Michigan's Museum of Natural History - Science Communication Fellow
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 GeoClub EBoard - Outreach & Career Development
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 Michigan Geophysical Union (MGU) - Organizing Committee Member, 2025 Co-Chair
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 Center for Research on Learning & Teaching (CRLT)'s Foundational Course Initiative (FCI) - Team Member for restructuring EARTH 222/223: Introduction to Oceanography
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 ($\mathbf{\Delta_{47}}$) 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 $\delta^{18}O$ 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. $\delta^{18}O_{water}$ 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. Paleoceanography & Paleoclimatology, 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.**
2010-2017 Tim Keyes Consort (Orchestra) - Cellist.
2016-2017 Mount Sinai Hospital - Volunteer.
2014-2015 Liberty Science Center - Volunteer.