Objective

PhD Candidate and researcher at University of Michigan's Department of Earth & Environmental Sciences - seeking to apply robust background in carbonate chemistry, paleoclimate, and paleoceanography to a collaborative role in research coordination and project management related to carbon capture technologies.

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2021-present *Ph.D. Earth and Environmental Sciences*

University of Michigan - Ann Arbor

Research topics: Carbonate chemistry, Paleoclimate, Isotope geochemistry

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

Skills

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

Software: Microsoft Office (Word/Excel/PowerPoint), ArcGIS Pro, Adobe Illustrator, Canva. *Laboratory*: Mass spectrometry (IRMS, GC/LC-MS), SEM/EDS, IR/Raman spectroscopy.

Languages: English, Tagalog (Elementary).

Interpersonal: Mentorship, public speaking, management, administration.

Selected Publications

| In prep | Quizon, A.A., Petersen, S.V., Winkelstern, I.Z., Wehmiller, J.F. End-Last Interglacial transition |
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and substantial ice sheet melt detected at Sankaty Head Cliff, Massachusetts. [In prep for

submission to Geology.]

In prep **Quizon, A.A.,** Scholz, S.R., Petersen, S.V., Escobar, J., Jaramillo, C. 'Vital' (disequilibrium)

effects in turritellid gastropods - a case study with Mid-Miocene Colombian fossils. [In prep for

submission to *Geology*.]

In review Quizon, A.A., Gomes, L.D., Petersen, S.V., VanDeVelde, J. Seawater salinity and oxygen

isotopes along the U.S. East Coast from 24°N to 44°N. [Submitted to (*Nature*) Scientific Data.]

Quizon, A.A., Petersen, S.V., deWinter, N.J., Vellekoop, J. Clumped isotope thermometry (Δ_{47})

measurements in marine gastropods suggest equilibrium precipitation. Geochimica et

Cosmochimica Acta, 410, 234-249.

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. The Depositional Record.

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.

Professional Employment History

2021-present

University of Michigan - Dept. of Earth & Environmental Sciences

Research: Analyzed isotope data (δ^{13} C, δ^{18} O, Δ_{47}/Δ_{48}) in seashells to reconstruct paleoclimate (i.e., sea surface temperatures), paleoceanography (i.e., ice sheet behavior, ocean circulation changes), and paleophysiology (i.e., how carbonate shells form). Teaching: (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 hands-on activities during lectures; (2) Introduction to Oceanography - graded problem sets and assignments, supervised lab experiments, organized interactive demonstrations during lecture;

(3) EARTH Camp - ran field trips (e.g., UM Biological Station, museums, national park hikes) to introduce high school students from the metro-Detroit area to the geosciences.

2018-2021 Williams College - Dept. of Geosciences, Dept. of Chemistry

> Research: Analyzed bulk sediment isotopes (δ^{13} C, δ^{15} N) from the Bering Sea to study how the biological pump (i.e., ocean carbon cycling) changed across geologic time. Teaching: General Chemistry II - answered questions, graded weekly problem sets.

2018 Woods Hole Oceanographic Institution - Dept. of Marine Chemistry & Geochemistry Research: Analyzed weight%/δ¹³C/¹⁴C in foraminiferal & coccolith calcite from core top sediments to interpret dissolution trends and how they impact global carbon cycling.

Leadership & Committee Experience

2025-present

GeoClub EBoard - Co-President

Organized professional and social events for the organization and EARTH department (e.g., professional development and science communication workshops, career panels, alumni networking events, graduate student retreat, potluck socials, end-of-year banquet).

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 events, department climate, curriculum, etc.

2024-2025 GeoClub EBoard - Outreach & Career Development Coordinator

> Organized/led professional development workshops (e.g., Excel/R softwares, academic funding, Zotero, poster prep) & career panels to introduce students to geoscience careers.

2023-2025 Unlearning Racism in Geoscience (URGE) - Pod Facilitator

Led curriculum discussions, organized deliverables, delegated team responsibilities, etc.

2022-2025 Michigan Geophysical Union (MGU) - Organizing Committee Member, 2025 Co-Chair

> Organized several student-led geosciences research symposia. Responsibilities included: coordinating oral and poster presenters, assigning judges and distributing awards, organizing registration forms, booking/scheduling spaces for program events, etc.

Center for Research on Learning & Teaching (CRLT)'s Foundational Course Initiative 2022-2024

> (FCI) - Team Member for restructuring EARTH 222/223: Introduction to Oceanography Helped renovate the course with new innovations (e.g., 'GradeCraft') and interactive demonstrations, created supplemental resources (e.g., math 'toolkit', video tutorials), etc.

Other Activities