

Susan Pit

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Motivated geochemist looking for opportunities to be involved in connecting science to society

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Santa Cruz, CA (USA)



Research interests:

- Biogeochemistry
- Aquatic geochemistry
- Hydrology
- Soil geochemistry

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Education

Ph.D. Earth Sciences University of California, Santa Cruz	2022 – present
M.Sc. Earth Sciences, <i>cum laude</i> Utrecht University, Utrecht (Netherlands)	2017 –2019
B.Sc. Liberal Arts and Sciences, <i>cum laude</i> University College Utrecht, Utrecht (Netherlands)	2014 - 2017

Publications

Vollebregt, A., van Helmond, N. A., **Pit, S.**, Kraal, P., & Slomp, C. P. (2023). Trace metals as a redox proxy in Arabian Sea sediments in and below the oxygen minimum zone. *Chemical Geology*, 121300. doi.org/10.1016/j.chemgeo.2022.121300

Awards, Honors, and Research Grants

Myers Oceanographic & Marine Biology Trust Research Grant (\$1,250)	2023
Regent's Fellowship , University of California, Santa Cruz (\$8,818)	2022
Earth & Planetary Sciences Department Fellowship , University of California, Santa Cruz (\$4,000)	2019 2017
Olaf Schuiling Fund Research Grant , Utrecht University (€2,000)	
Olaf Schuiling Fund Research Grant , Utrecht University (€2,000)	

Conference Presentations

Pit S., Cui, X., Paytan A., Jeppesen R., & Haskins J. *Trace Metal Concentrations and Hydrochemical Indicators in the Elkhorn Slough Estuary*. AGU Fall Meeting; 2021 December; New Orleans LA.

Wood M.M., Tatzel M., **Pit S.**, Kolevica A., Eisenhauer A., Ridgwell A., Hain M., Paytan A. *Stable and radiogenic strontium isotopes in seawater over the Late Quaternary*. Goldschmidt Conference; 2020 June; virtual conference.

Pit S. M., & Paytan A. *Stable and radiogenic Sr isotopes in the ocean across the Paleocene-Eocene Thermal Maximum event as recorded in marine barite*. AGU Fall Meeting; 2019 December; San Francisco CA.

Dirksen J.P., **Pit S.M.**, Slom, C.P., Meijer P. *Transient model analysis of salinity and oxygen dynamics in the Holocene Black Sea*. *Nederlands Aardwetenschappelijk Congres; 2019 March; Utrecht, The Netherlands.*

Teaching

Teaching Assistant , University of California, Santa Cruz	2023
Introduction to Environmental Processes	
Teaching Assistant , Utrecht University	2018 - 2019
Geochemical Processes of the Earth's Surface	

Service and Outreach

GEODES leader , University of California, Santa Cruz, Department of Earth & Planetary Sciences	2022 – present
Volunteer Community Blue Innovation Festival , Seymour Marine Discovery Center	
GEOPATHS mentor , University of California, Santa Cruz, Department of Earth & Planetary Sciences	2022
	2022
Volunteer Session Leader , Monterey County Expanding your Horizons STEM conference	2019

Professional Experience

Jr Specialist Researcher	2019 – 2022
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US Geological Survey, Pacific Coastal and Marine Sciences Center

Task: Working under supervision of Dr. Nancy Prouty (Pacific Coastal and Marine Science Center, USGS) and Prof. Dr. Adina Paytan (UC Santa Cruz, Department of Earth and Planetary Sciences) on a variety of research projects:

- Nitrogen isotopes in cold water corals.
- Carbon isotopes in authigenic carbonates formed at marine methane seeps.
- Classification of morphological features in marine methane seeps.
- Trace metal concentrations in fresh and saline waters.
- Strontium isotopes in marine barites.

Graduate Researcher	2019 – 2019
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US Geological Survey, Pacific Coastal and Marine Sciences Center

Task: Worked on nutrient cycling in the Bay of Alaska as recorded by nitrogen isotopes in cold water bamboo corals, under supervision of Dr. Nancy Prouty (Pacific Coastal and Marine Science Center, USGS).

Graduate Researcher	2019 – 2019
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Earth and Planetary Sciences Department, University of California, Santa Cruz

Task: Worked on stable and radiogenic strontium isotopes as recorded in marine barite, and how they can be used as a proxy for carbonate burial in marine sediments, under supervision of Prof. Dr. Adina Paytan (UC Santa Cruz, Department of Earth and Planetary Sciences). Lab research conducted through application of column chemistry and mass spectrometry techniques.

Graduate Researcher	2018 - 2019
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Department of Earth Sciences, Utrecht University

Task: Catalogued and organized a clay mineral collection, and prepared fieldwork materials for a fieldwork campaign, under the supervision of Prof. Dr. Thilo Behrends (Department of Geochemistry, Utrecht University).

Graduate Researcher

2017 - 2018

Royal Netherlands Institute for Sea Research (NIOZ)

Task: Assisted with the collection of deep-sea sediment samples during the first leg of the Netherlands Initiative Changing Oceans (NICO) expedition, under the supervision of Dr. Lennart de Nooijer (Department of Ocean Systems, NIOZ).